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### (54) 【発明の名称】新規アデニン誘導体を有効成分として含有する医薬

# (57)【要約】

【課題】種々のウイルス性疾患、癌疾患あるいは炎症性疾患に対する治療に有用な医薬を提供する。

【解決手段】一般式(I):

### 【化1】

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[式中、X は、N R  $^3$  (R  $^3$  は水素原子若しくは炭素数 1  $\sim$  3 のアルキル基)等を表し; R  $^1$  は、置換若しくは非置換のアルキル基等を表し; R  $^2$  は、水酸基等を表し; Y は、置換若しくは非置換の芳香族へテロ環等を表す。〕で示されるアデニン誘導体若しくはその互変異性体又はそれらの薬学的に許容される塩、及び、これを有効成分とする、インターフェロン誘導剤、抗ウイルス剤、抗癌剤、タイプ 2 ヘルパー T 細胞選択的免疫応答抑制剤、抗アレルギー剤及び免疫応答調節剤等の医薬。

【選択図】 なし。

【特許請求の範囲】

【請求項1】

一般式(I):

【化1】

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# 【請求項2】

一般式(I)において、R<sup>1</sup>が炭素数1~8のアルキル基、炭素数2~8のアルケニル基、炭素数2~8のアルキニル基、炭素数2~8のアルコキシアルキル基、炭素数1~8のヒドロキシアルキル基、アリール基、ヘテロアリール基、アラルキル基、又はヘテロアリールアルキル基である請求項1に記載の医薬。

# 【請求項3】

一般式(I)において、R<sup>I</sup>が炭素数1~6のアルキル基である請求項1に記載の医薬。 【請求項4】

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一般式(I)において、Xが、NHである請求項1~3のいずれかに記載の医薬。

#### 【請求項5】

一般式(Ⅰ)において、Xが、酸素原子である請求項1~3のいずれかに記載の医薬。

# 【請求項6】

一般式(I)において、Yが、非置換若しくは置換のピリジン環又は置換若しくは非置換のピラジン環である請求項  $1\sim 5$  のいずれかに記載の医薬。

### 【請求項7】

一般式(I)において、Yが、非置換若しくは置換のナフタレン環又は置換若しくは非置換のチオフェン環である請求項1~5のいずれかに記載の医薬。

#### 【請求項8】

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一般式(I)において、Yが、炭素数1~4のアルキル基、炭素数1~4のアルコキシ基、水酸基、メルカプト基、炭素数1~4のアルキルチオ基、ハロゲン原子、アミノ基、炭素数2~8のジアルキルアミノ基、炭素数1~4のモノアルキルアミノ基、ピロリジニル基、ピペリジノ基及びモルホリノ基からなる群から選択される1又は複数の置換基を有する請求項1~7のいずれかに記載の医薬。

#### 【請求項9】

一般式(I)において、Yが、炭素数1~4のアルキル基、炭素数1~4のアルコキシ基、水酸基、メルカプト基、炭素数1~4のアルキルチオ基、ハロゲン原子、アミノ基、炭素数2~8のジアルキルアミノ基、炭素数1~4のモノアルキルアミノ基、ピロリジニル基、ピペリジノ基及びモルホリノ基からなる群から選択される置換基を有していてもよい

ピリジン環であり、 $R^{-1}$ が炭素数  $1\sim6$  のアルキル基であり、 $R^{-2}$  が水酸基である請求項 1 に記載の医薬。

【請求項10】

Xが NH 又は酸素原子である請求項9に記載の医薬。

【発明の詳細な説明】

[0001]

【発明の属する技術分野】

本発明は、B型及びC型肝炎、エイズなどのウイルス疾患、癌疾患などの予防又は治療に対して有用なアデニン誘導体、並びにこれを有効成分とする、インターフェロン誘導剤、抗ウイルス剤、抗癌剤、タイプ2ヘルパーT細胞選択的免疫応答抑制剤、抗アレルギー剤及び免疫応答調節剤等の医薬に関する。

インターフェロンは感染防御や免疫調節を担う最も重要な因子の一つであり、B型及びC

[0002]

【従来の技術】

型肝炎治療剤、或いは癌免疫療法剤として既に実用化されている。特にC型肝炎において は事実上唯一の治療薬となっている。インターフェロンは分子量約2万のポリペプチドで あり、遺伝子組換え法あるいは細胞培養法によって製造され、注射によってのみが投与可 能である。従って、経口投与可能なインターフェロン誘導剤が望まれている。 これまでインターフェロン誘発作用を持つ物質としては、ウイルスや他の生物由来の二本 鎖核酸、ポリ(I):ポリ(C)やポリカルボキシレートなどの高分子ポリマーが知られ ているが、二本鎖核酸や高分子ポリマーは、抗原性や病原微生物による汚染の危険、生物 学的安定性等で問題がある上、高分子であるため経口剤としての開発は困難である。低分 子インターフェロン誘導物質として、フルオレノン類、ピリミジノン類、アントラキノン 類など幾つかのものが検討されてきたが(非特許文献1、2、及び3)、治療効果が低く 、或いはその毒性のため医薬品としての開発は断念されてきた(非特許文献4)。別の低 分子インターフェロン誘導物質として、イミダゾキノリン誘導体であるR-837(イミ キモド)も知られているが (特許文献1) 、R-837のインターフェロン誘導活性 は低く、副作用のため経口剤分野での開発は中止されている。我々も特定のプリン誘導体 にインターフェロン誘導作用があることを見出した(特許文献2)。しかし、これらの化 合物は水溶性が低いために、消化管吸収率の点で必ずしも十分ではなかった。

[0003]

一方、免疫応答において中心的役割を担っているのはヘルパーT細胞である。ヘルパーT 細胞にはTh1細胞とTh2細胞の2種類があり、Th1細胞の活性化に伴い産生される サイトカインにはインターロイキン-2 (11-2) やインターフェロン-y (1FNy) などがあり、Th2細胞から産生されるものには、インターロイキン-4 (IL-4 ) やインターロイキン-5 ( I L - 5 ) などがある。Th1側サイトカインはマクロファ ージやナチュラルキラー細胞などの活性化を起こし、主にウイルス、バクテリアなどに対 する感染防御などの細胞性免疫に関与していることが知られている。Th2側サイトカイ ンはB細胞からの抗体産生などの液性免疫に関与している。特にIL-4はB細胞にIg E 抗体の産生を誘導させるほか、Th2細胞の分化増殖作用を有する。IL-5は好酸球 の活性化、分化増殖促進、寿命延長などの作用を有しており、アレルギー性炎症でしばし ば重要な役割を果たしている。実際に喘息、アトピー性皮膚炎などTh2細胞を主体とす るアレルギー性炎症の患者の患部においてはこれらのTh2側サイトカインの増加が認め られている。これらの疾患の治療にはステロイド剤がしばしば使用されるが、ステロイド 剤の長期投与は広範な副作用(糖尿病、骨粗鬆症、副腎機能不全、ムーンフェイスなど) が発現してしまうことが問題である。またステロイド剤はTh1およびTh2いずれのT 細胞に対しても抑制的に作用するため、Th1細胞を抑制した結果として感染症を引き起 こすことがある。以上より Th2側の免疫応答を選択的に抑制する薬剤は、感染症を起こ すことなく安全なアレルギー疾患の治療薬となることが期待できる。

[0004]

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### 【非特許文献1】

Mayer, G. D. 5, [Science, 169, 1214 (1970,)]

### 【非特許文献2】

Nichol, F. R. S.  $\lceil$  Antimicrob. Agents Chemother., 9, 433 (1976)

# 【非特許文献3】

Stringfellow, D. A. S., [Antimicrob. Agents Chemother., 15, 111 (1991)]

### 【非特許文献4】

Reiter, M. A. S.  $\Gamma$ J. Leukocyte Biol., 55, 2 10 34 (1994)  $\rfloor$ 

# 【特許文献1】

欧州特許出願公開第145340号明細書

## 【特許文献2】

国際公開第99/28321号パンフレット

## [0005]

### 【発明が解決しようとする課題】

前記状況に鑑み、本発明の目的は、B型及びC型肝炎、エイズなどのウイルス疾患、癌疾患およびタイプ2ーヘルパーT細胞を起因とする疾患などの予防又は治療に対して有効で、経口投与が可能な低分子であって、さらに物性(例えば溶解度、体内動態など)を向上させた化合物を提供することにある。

### [0006]

# 【課題を解決するための手段】

かかる背景から、本発明者らは鋭意検討した結果、特定構造を有するアデニン誘導体が、際だったインターフェロン誘導活性およびタイプ 2 ーヘルパー T 細胞選択的免疫応答抑制作用を有するとともに、物性面で優れていることを見いだし、本発明を完成するに至った

## [0007]

即ち、本発明は以下の発明を包含する。

### (1) 一般式(I):

# 【化2】

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「式中、 X は、 N R 3 ( R 3 は水素原子若しくは炭素数 1 ~ 3 のアルキル基)、酸素原子 表し; R 1 は、置換若しくは非置換のアルキル基、置換若しくは非置換のアルケニル基、置換若しくは非置換のアルキニル基、置換若しくは非置換のアリール基を表し; R 2 は、水酸基、メルカプト基、炭素数 1 ~ 8 のアシルオキシ基、 又は炭素数 2 ~ 8 のアルロコキシカルボニルオキシ基、炭素数 1 ~ 8 のアシルオキシ基、 又は炭素数 2 ~ 8 のアルコキシカルボニルオキシを表し; Y は、 置換若しくは非置換の、窒素原子、 及び硫黄原子からなる群から選択される 1 個若しくは 2 個のヘテロ原子を含む縮合 2 環性 及び硫黄原子からなる群から選択される 1 個若しくは 2 個のヘテロ原子を含む縮合 2 環性

芳香族へテロ環を表す。〕で示されるアデニン誘導体若しくはその互変異性体又はそれらの薬学的に許容される塩。

- (2)前記一般式(I)において、 $R^{-1}$ が炭素数  $1 \sim 8$ のアルキル基、炭素数  $2 \sim 8$ のアルケニル基、炭素数  $2 \sim 8$ のアルキニル基、炭素数  $2 \sim 8$ のアルコキシアルキル基、炭素数  $1 \sim 8$ のヒドロキシアルキル基、アリール基、ヘテロアリール基、アラルキル基、又はヘテロアリールアルキル基である前記(1)に記載の化合物。
- (3)前記一般式(I)において、 $R^1$ が炭素数  $1\sim 6$  のアルキル基である前記(1)又は(2)に記載の化合物。
- (4)前記一般式(I)において、Xが、N Hである前記(1)~(3)のいずれかに記載の化合物。
- (5)前記一般式(I)において、Xが、酸素原子である前記(1)~(3)のいずれかに記載の化合物。
- (6)前記一般式(I)において、Yが、非置換若しくは置換のピリジン環又は置換若しくは非置換のピラジン環である前記(1)~(5)のいずれかに記載の化合物。
- (7)前記一般式(I)において、Yが、非置換若しくは置換のナフタレン環又は置換若しくは非置換のチオフェン環である前記(1)~(5)のいずれかに記載の化合物。
- (8)前記一般式(I)において、Yが、炭素数  $1 \sim 4$  のアルキル基、炭素数  $1 \sim 4$  のアルコキシ基、水酸基、メルカプト基、炭素数  $1 \sim 4$  のアルキルチオ基、ハロゲン原子、アミノ基、炭素数  $2 \sim 8$  のジアルキルアミノ基、炭素数  $1 \sim 4$  のモノアルキルアミノ基、ピロリジニル基、ピペリジノ基及びモルホリノ基からなる群から選択される置換基を、該Yがピリジン環の場合は  $1 \sim 4$  個、該Yがピラジン環の場合は  $1 \sim 3$  個任意の位置に有する前記(1)~(6)のいずれかに記載の化合物。
- (9)前記一般式(I)において、Yが、炭素数  $1 \sim 4$  のアルキル基、炭素数  $1 \sim 4$  のアルコキシ基、水酸基、メルカプト基、炭素数  $1 \sim 4$  のアルキルチオ基、ハロゲン原子、アミノ基、炭素数  $1 \sim 4$  のモノアルキルアミノ基、ピコリジニル基、ピペリジノ基及びモルホリノ基からなる群から選択される置換基を有していてもよいピリジン環であり、 $R^1$  が炭素数  $1 \sim 6$  のアルキル基であり、 $R^2$  が水酸基である前記(1)~(6)、(8)のいずれかに記載の化合物。
- (10) Xが NH 又は酸素原子である(9)記載の化合物。
- (11)前記(1)~(10)のいずれかに記載の化合物を有効成分とする医薬。
- (12) 前記(1)  $\sim$  (10) のいずれかに記載の化合物を有効成分とするインターフェロン誘導剤。
- (13)前記(1)~(10)のいずれかに記載の化合物を有効成分とする抗ウイルス剤。
- (14)前記(1)~(10)のいずれかに記載の化合物を有効成分とする抗癌剤。
- (15)前記(1)~(10)のいずれかに記載の化合物を有効成分とするタイプ2ヘルパーT細胞選択的免疫応答抑制剤。
- (16)前記(1)~(10)のいずれかに記載の化合物を有効成分とする抗アレルギー剤。
- (17)前記(1)~(10)のいずれかに記載の化合物を有効成分とする免疫応答調節 剤。

# [0008]

以下、本発明の化合物について詳細に説明する。

一般式(I)において、 $R^-$ におけるアルキル基、アルケニル基またはアルキニル基としては炭素数  $1 \sim 8$ のアルキル基、炭素数  $2 \sim 8$ のアルケニル基、炭素数  $2 \sim 8$ のアルケニル基、炭素数  $2 \sim 8$ のアルケニル基をはアルキニル基が好ましい。さらに、 $R^-$ におけるアルキル基、アルケニル基またはアルキニル基の置換基としては、水酸基、炭素数  $1 \sim 8$ のアルコキシ基、アリール基、ヘテロアリール基、ハロゲン原子(塩素、フッ素、臭素、沃素等)を挙げることができ、特には、 $R^-$ における置換のアルキル基、アルケニル基またはアルキニル基としては炭素数  $2 \sim 8$ のアルコキシアルキル基、炭素数  $1 \sim 8$ のヒドロキシアルキル基、アラルキル基、及びヘテロアリ

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ールアルキル基等が好ましい。

前記炭素数  $1 \sim 8$  のアルキル基としては、例えばメチル基、エチル基、1 - プロピル基、2 - プロピル基、1 - プロピル基、1 - ペンチル基、2 - ペンチル基、1 - ペキシル基、2 - ペンチル基、1 - ペナル基、2 - ペンチル基、3 - ペプチル基、オクチル基、2 - メチルプロピル基、2 - メチルブチル基、3 - メチルブチル基、2 - メチルブチル基、4 - メチルブチル基、メチルペキシル基、メチルペンチル基、4 - メチルペンチル基、メチルペンチル基、メチルペンチル基、1、1 - ジメチルプロピル基、2 - エチルヘキシル基、シクロペンチルメチル基、シクロペンチルメチル基、シクロペンチルメチル基、シクロペンチル基、メチルシクロペンチル基、シクロペンチル基、メチルシクロペンチル基、シクロペプチル基、メチルシクロペンチル基、シクロペプチル基、メチルシクロペンチル基、シクロペプチル基、シクロペプチル基、シクロペプチル基、シクロペプチル基、シクロペプチル基、シクロペプチル基、シクロペプチル基、シクロペプチル基、シクロペプチル基、シクロペプチル基、シクロペプチル基、シクロペプチル基、シクロペプチル基、シクロペプチル基、シクロペプチル基、シクロオクチル基などが挙げられる。

前記炭素数2~8のアルケニル基としては、例えばビニル基、アリル基、クロチル基、1 ープロペニル基、シクロペンテニル基、シクロペンタジエニル基、シクロヘキセニル基などが挙げられる。

前記炭素数2~8のアルキニル基としては、例えばエチニル基、プロピニル基、ブチニル 基などが挙げられる。

### [0009]

前記炭素数1~8のヒドロキシアルキル基としては、例えば1-ヒドロキシエチル基、2-ヒドロキシエチル基、1-ヒドロキシプロピル基、2-ヒドロキシプロピル基、3-ヒドロキシプロピル基、1-ヒドロキシブチル基、2-ヒドロキシブチル基、3-ヒドロキシブチル基、4-ヒドロキシブチル基などが挙げられる。

前記アラルキル基としては、例えばベンジル基、1-フェネチル基、2-フェネチル基、フェニルプロピル基、フェニルブチル基などが挙げられる。

前記へテロアリールアルキル基としては、4-ピリジルメチル基、3-ピリジルメチル基などが挙げられる。

前記炭素数2~8のアルコキシアルキル基としては、例えばメトキシメチル基、2ーメトキシエチル基、3-メトキシプロピル基、4-メトキシブチル基、エトキシメチル基、2-エトキシエチル基、3-エトキシプロピルなどが挙げられる。

なお、上で示した R 「で表される各置換基は、アルキル基、ヒドロキシル基、メルカプト 基、ハロゲン原子、アミノ基、アルコキシ基等の置換基を有していてもよい。

#### [0010]

また一般式(I)において、R¹におけるアリール基またはヘテロアリール基としては、 フェニル基、1-ナフチル基、2-ナフチル基、2-ピリジル基、3-ピリジル基、4-ピリジル基、2-ピラジニル基、3-ピラジニル基、2-ピリミジニル基、4-ピリミジ ニル基、5-ピリミジニル基、2-フリル基、3-フリル基、2-チエニル基、3-チエ ニル基などが挙げられる。上記アリール基またはヘテロアリール基は非置換あるいは置換 基を有していてもよく、置換基としては炭素数1~4のアルキル基、炭素数1~4のアル コキシ基、水酸基、メルカプト基、炭素数1~4のアルキルチオ基、ハロゲン原子、アミ ノ基、炭素数2~8のジアルキルアミノ基、炭素数1~4のモノアルキルアミノ基、メチ レンジオキシ基等が挙げられる。前記炭素数1~4のアルキル基としては、メチル基、エ チル基、1-プロピル基、2-プロピル基、1-ブチル基、2-ブチル基などを挙げるこ とができる。炭素数1~4のアルコキシ基としては、メトキシ基、エトキシ基、1-プロ ポキシ基、2-プロポキシ基、1-ブトキシ基、2-ブトキシ基などを挙げることができ る。前記炭素数2~8のジアルキルアミノ基としては、ジメチルアミノ基、ジエチルアミ ノ基、ジプロピルアミノ基、ジブチルアミノ基、エチルメチルアミノ基、メチルプロピル アミノ基などを挙げることができる。前記炭素数1~4のモノアルキルアミノ基としては 、メチルアミノ基、エチルアミノ基、プロピルアミノ基、ブチルアミノ基などを挙げるこ とができる。前記炭素数1~4のアルキルチオ基としては、メチルチオ基、エチルチオ基 、1-プロピルチオ基、2-プロピルチオ基、1-ブチルチオ基、2-ブチルチオ基、t ーブチルチオ基などが挙げられる。前記ハロゲン原子としては、フッ素、塩素、臭素が挙 げられる。

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置換基を有するR<sup>1</sup>におけるアリール基またはヘテロアリール基としては、2-メチルフ ェニル基、3-メチルフェニル基、4-メチルフェニル基、2-エチルフェニル基、3-エチルフェニル基、4-エチルフェニル基、2-プロピルフェニル基、3-プロピルフェ ニル基、4-プロピルフェニル基、2-イソプロピルフェニル基、3-イソプロピルフェ ニル基、4-イソプロピルフェニル基、2-ブチルフェニル基、3-ブチルフェニル基、 4-ブチルフェニル基、2-クロロフェニル基、3-クロロフェニル基、4-クロロフェ ニル基、2-フルオロフェニル基、3-フルオロフェニル基、4-フルオロフェニル基、 2-メトキシフェニル基、3-メトキシフェニル基、4-メトキシフェニル基、2-エト キシフェニル基、3-エトキシフェニル基、4-エトキシフェニル基、2-プロポキシフ ェニル基、3-プロポキシフェニル基、4-プロポキシフェニル基、2-イソプロポキシ フェニル基、3-イソプロポキシフェニル基、4-イソプロポキシフェニル基、2-ブト キシフェニル基、3-ブトキシフェニル基、4-ブトキシフェニル基、2-メチルアミノ フェニル基、3-メチルアミノフェニル基、4-メチルアミノフェニル基、2-エチルア ミノフェニル基、3-エチルアミノフェニル基、4-エチルアミノフェニル基、2-プロ ピルアミノフェニル基、3-プロピルアミノフェニル基、4-プロピルアミノフェニル基 、2-イソプロピルアミノフェニル基、3-イソプロピルアミノフェニル基、4-イソプ ロピルアミノフェニル基、2-ブチルアミノフェニル基、3-ブチルアミノフェニル基、 4-ブチルアミノフェニル基、2-ジメチルアミノフェニル基、3-ジメチルアミノフェ ニル基、4-ジメチルアミノフェニル基、2-ジエチルアミノフェニル基、3-ジエチル アミノフェニル基、4ージエチルアミノフェニル基、2ージプロピルアミノフェニル基、 3-ジプロピルアミノフェニル基、4-ジプロピルアミノフェニル基、2-ジブチルアミ ノフェニル基、3-ジブチルアミノフェニル基、4-ジブチルアミノフェニル基、2-エ チルメチルアミノフェニル基、3-エチルメチルアミノフェニル基、4-エチルメチルア ミノフェニル基、2ーメチルチオフェニル基、3-メチルチオフェニル基、4-メチルチ オフェニル基、2-エチルチオフェニル基、3-エチルチオフェニル基、4-エチルチオ フェニル基、2-プロピルチオフェニル基、3-プロピルチオフェニル基、4-プロピル チオフェニル基、2ーイソプロピルチオフェニル基、3ーイソプロピルチオフェニル基、 4 一イソプロピルチオフェニル基、2 ーブチルチオフェニル基、3 ーブチルチオフェニル 基、4-ブチルチオフェニル基、2-メチルー1-ナフチル基、3-メチルー1-ナフチ ル基、4-メチル-1-ナフチル基、5-メチル-1-ナフチル基、6-メチル-1-ナ フチル基、7ーメチルー1ーナフチル基、8ーメチルー1ーナフチル基、1ーメチルー2 ーナフチル基、3-メチル-2-ナフチル基、4-メチル-2-ナフチル基、5-メチル - 2 - ナフチル基、 6 - メチル - 2 - ナフチル基、 7 - メチル - 2 - ナフチル基、 8 - メ チルー2ーナフチル基、2ーメトキシー1ーナフチル基、3ーメトキシー1ーナフチル基 4-メトキシー1-ナフチル基、5-メトキシー1-ナフチル基、6-メトキシー1-ナフチル基、7-メトキシー1-ナフチル基、8-メトキシー1-ナフチル基、1-メト キシー2ーナフチル基、3ーメトキシー2ーナフチル基、4ーメトキシー2ーナフチル基 、5-メトキシ-2-ナフチル基、6-メトキシ-2-ナフチル基、7-メトキシ-2-ナフチル基、8-メトキシ-2-ナフチル基、2-エトキシ-1-ナフチル基、3-エト キシー1ーナフチル基、4ーエトキシー1ーナフチル基、5ーエトキシー1ーナフチル基 、6-エトキシ-1-ナフチル基、7-エトキシ-1-ナフチル基、8-エトキシ-1-ナフチル基、1-エトキシ-2-ナフチル基、3-エトキシ-2-ナフチル基、4-エト キシー2ーナフチル基、5-エトキシー2ーナフチル基、6-エトキシー2ーナフチル基 、7一エトキシー2ーナフチル基、8一エトキシルー2ーナフチル基、2一ヒドロキシー 1ーナフチル基、3ーヒドロキシー1ーナフチル基、4ーヒドロキシー1ーナフチル基、 5-ヒドロキシ-1-ナフチル基、6-ヒドロキシ-1-ナフチル基、7-ヒドロキシ-1ーナフチル基、8-ヒドロキシー1ーナフチル基、1-ヒドロキシー2ーナフチル基、 3-ヒドロキシー2-ナフチル基、4-ヒドロキシー2-ナフチル基、5-ヒドロキシー 2-ナフチル基、6-ヒドロキシー2-ナフチル基、7-ヒドロキシー2-ナフチル基、 8-ヒドロキシ-2-ナフチル基、2-クロロ-1-ナフチル基、3-クロロ-1-ナフ

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チル基、4-クロロー1ーナフチル基、5-クロロー1ーナフチル基、6-クロロー1-ナフチル基、 7 ークロロー1 ーナフチル基、 8 ークロロー1 ーナフチル基、 1 ークロロー 2ーナフチル基、3ークロロー2ーナフチル基、4ークロロー2ーナフチル基、5ークロ ロー2ーナフチル基、6ークロロー2ーナフチル基、7ークロロー2ーナフチル基、8-クロロー2ーナフチル基、2ーフルオロー1ーナフチル基、3ーフルオロー1ーナフチル 基、4-フルオロ-1-ナフチル基、5-フルオロ-1-ナフチル基、6-フルオロ-1 ーナフチル基、7-フルオロ-1-ナフチル基、8-フルオロ-1-ナフチル基、1-フ ルオロー2ーナフチル基、3ーフルオロー2ーナフチル基、4ーフルオロー2ーナフチル 基、5-フルオロー2ーナフチル基、6-フルオロー2ーナフチル基、7-フルオロー2 ーナフチル基、8-フルオロ-2-ナフチル基、2-アミノ-1-ナフチル基、3-アミ ノー1ーナフチル基、4ーアミノー1ーナフチル基、5ーアミノー1ーナフチル基、6-アミノー1ーナフチル基、7ーアミノー1ーナフチル基、8ーアミノー1ーナフチル基、 1-アミノー2-ナフチル基、3-アミノー2-ナフチル基、4-アミノー2-ナフチル 基、5-アミノー2-ナフチル基、6-アミノー2-ナフチル基、7-アミノー2-ナフ チル基、8-アミノ-2-ナフチル基、2-メチルアミノ-1-ナフチル基、3-メチル アミノー1ーナフチル基、4ーメチルアミノー1ーナフチル基、5ーメチルアミノー1ー ナフチル基、6-メチルアミノー1-ナフチル基、7-メチルアミノー1-ナフチル基、 8-メチルアミノー1-ナフチル基、1-メチルアミノー2-ナフチル基、3-メチルア ミノー2ーナフチル基、4ーメチルアミノー2ーナフチル基、5ーメチルアミノー2ーナ フチル基、6-メチルアミノー2-ナフチル基、7-メチルアミノー2-ナフチル基、8 ーメチルアミノー2ーナフチル基、2ージメチルアミノー1ーナフチル基、3ージメチル アミノー1ーナフチル基、4-ジメチルアミノー1-ナフチル基、5-ジメチルアミノー 1-ナフチル基、6-ジメチルアミノー1-ナフチル基、7-ジメチルアミノー1-ナフ チル基、8-ジメチルアミノー1-ナフチル基、1-ジメチルアミノー2-ナフチル基、 3-ジメチルアミノー2ーナフチル基、4-ジメチルアミノー2ーナフチル基、5-ジメ チルアミノー2ーナフチル基、6-ジメチルアミノー2-ナフチル基、7-ジメチルアミ ノー2ーナフチル基、8-ジメチルアミノー2-ナフチル基、2-メチル-3-ピリジル 基、4ーメチルー3ーピリジル基、5ーメチルー3ーピリジル基、6ーメチルー3ーピリ ジル基、3ーメチルー2ーピリジル基、4ーメチルー2ーピリジル基、5ーメチルー2ー ピリジル基、6-メチル-2-ピリジル基、2-メチル-4-ピリジル基、3-メチル-4-ピリジル基、5-メチル-4-ピリジル基、6-メチル-4-ピリジル基、2-エチ ルー3ーピリジル基、4ーエチルー3ーピリジル基、5ーエチルー3ーピリジル基、6ー エチルー3ーピリジル基、3ーメチルー2ーピリジル基、4ーメチルー2ーピリジル基、 5-メチル-2-ピリジル基、6-エチル-2-ピリジル基、2-エチル-4-ピリジル 基、3-エチル-4-ピリジル基、5-エチル-4-ピリジル基、6-エチル-4-ピリ ジル基、2-メトキシー3-ピリジル基、4-メトキシー3-ピリジル基、5-メトキシ -3-ピリジル基、6-メトキシ-3-ピリジル基、3-メトキシ-2-ピリジル基、4 -メトキシ-2-ピリジル基、5-メトキシ-2-ピリジル基、6-メトキシ-2-ピリ ジル基、2-メトキシー4-ピリジル基、3-メトキシー4-ピリジル基、5-メトキシ - 4 - ピリジル基、6 - メトキシー4 - ピリジル基、2 - エトキシー3 - ピリジル基、4 ーエトキシー3-ピリジル基、5-エトキシー3-ピリジル基、6-エトキシー3-ピリ ジル基、3-エトキシー2-ピリジル基、4-エトキシー2-ピリジル基、5-エトキシ -2-ピリジル基、6-エトキシ-2-ピリジル基、2-エトキシ-4-ピリジル基、3 ーエトキシー4ーピリジル基、5ーエトキシー4ーピリジル基、6ーエトキシー4ーピリ ジル基、2-ヒドロキシー3-ピリジル基、4-ヒドロキシー3-ピリジル基、5-ヒド ロキシー3-ピリジル基、6-ヒドロキシー3-ピリジル基、3-ヒドロキシー2-ピリ ジル基、4-ヒドロキシ-2-ピリジル基、5-ヒドロキシ-2-ピリジル基、6-ヒド ロキシー2-ピリジル基、2-ヒドロキシー4-ピリジル基、3-ヒドロキシー4-ピリ ジル基、5-ヒドロキシー4-ピリジル基、6-ヒドロキシー4-ピリジル基、2-メル カプト-3-ピリジル基、4-メルカプト-3-ピリジル基、5-メルカプト-3-ピリ

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ジル 基 、 6 ー メ ル カ プ ト ー 3 ー ピ リ ジ ル 基 、 3 ー メ ル カ プ ト ー 2 ー ピ リ ジ ル 基 、 4 ー メ ル カプトー2ーピリジル基、5ーメルカプトー2ーピリジル基、6ーメルカプトー2ーピリ ジル基、2ーメルカプトー4ーピリジル基、3ーメルカプトー4ーピリジル基、5ーメル カプトー4ーピリジル基、6ーメルカプトー4ーピリジル基、2ーメチルチオー3ーピリ ジル基、4-メチルチオー3-ピリジル基、5-メチルチオー3-ピリジル基、6-メチ ルチオー3ーピリジル基、3ーメチルチオー2ーピリジル基、4ーメチルチオー2ーピリ ジル基、5-メチルチオー2-ピリジル基、6-メチルチオー2-ピリジル基、2-メチ ルチオー4ーピリジル基、3ーメチルチオー4ーピリジル基、5ーメチルチオー4ーピリ ジル基、6-メチルチオー4-ピリジル基、2-クロロー3-ピリジル基、4-クロロー 3-ピリジル基、5-クロロ-3-ピリジル基、6-クロロ-3-ピリジル基、3-クロ ロー2-ピリジル基、4-クロロー2-ピリジル基、5-クロロー2-ピリジル基、6-クロロー2ーピリジル基、2ークロロー4ーピリジル基、3ークロロー4ーピリジル基、 5-クロロー4-ピリジル基、6-クロロー4-ピリジル基、2-アミノー3-ピリジル 基、 4 ーアミノー 3 ーピリジル基、 5 ーアミノー 3 ーピリジル基、 6 ーアミノー 3 ーピリ ジル基、3-アミノ-2-ピリジル基、4-アミノ-2-ピリジル基、5-アミノ-2-ピリジル基、6-アミノ-2-ピリジル基、2-アミノ-4-ピリジル基、3-アミノ-4-ピリジル基、5-アミノー4-ピリジル基、6-アミノー4-ピリジル基、2-モノ メチルアミノー3ーピリジル基、4ーモノメチルアミノー3ーピリジル基、5ーモノメチ ルアミノー3-ピリジル基、6-モノメチルアミノ-3-ピリジル基、3-モノメチルア ミノー2-ピリジル基、4-モノメチルアミノー2-ピリジル基、5-モノメチルアミノ - 2 - ピリジル基、6 - モノメチルアミノ-2 - ピリジル基、2 - モノメチルアミノ-4 - ピリジル基、3-モノメチルアミノ-4-ピリジル基、5-モノメチルアミノ-4-ピ リジル基、6-モノメチルアミノ-4-ピリジル基、2-ジメチルアミノ-3-ピリジル 基、 4 - ジメチルアミノー3 - ピリジル基、5 - ジメチルアミノー3 - ピリジル基、6 -ジメチルアミノー3ーピリジル基、3ージメチルアミノー2ーピリジル基、4ージメチル アミノー2-ピリジル基、5-ジメチルアミノー2-ピリジル基、6-ジメチルアミノー 2-ピリジル基、2-ジメチルアミノー4-ピリジル基、3-ジメチルアミノー4-ピリ ジル基、5-ジメチルアミノー4-ピリジル基、6-ジメチルアミノー4-ピリジル基、 2-フルオロー3-ピリジル基、4-フルオロー3-ピリジル基、5-フルオロー3-ピ リジル基、6-フルオロー3-ピリジル基、3-フルオロー2-ピリジル基、4-フルオ ロー2ーピリジル基、5ーフルオロー2ーピリジル基、6ーフルオロー2ーピリジル基、 2-フルオロ-4-ピリジル基、3-フルオロ-4-ピリジル基、5-フルオロ-4-ピ リジル基、6-フルオロー4-ピリジル基、2,4-ジメチル-3-ピリジル基、2,6 ージメチルー3ーピリジル基、5,6-ジメチル-3-ピリジル基、4,6-ジメチルー 3-ピリジル基、4,5-ジメチル-2-ピリジル基、5,6-ジメチル-2-ピリジル 基、2、3ージメチルー4ーピリジル基、2、6ージメチルー4ーピリジル基、2、4ー ジメトキシー3-ピリジル基、2,6-ジメトキシー3-ピリジル基、5,6-ジメトキ シー3-ピリジル基、4,6-ジメトキシー3-ピリジル基、4,5-ジメトキシー2-ピリジル基、5,6ージメトキシー2ーピリジル基、2,3ージメトキシー4ーピリジル 基、2、6-ジメトキシー4-ピリジル基、2-クロロー6-メチルー3-ピリジル基、 6-クロロー2-メチルー3-ピリジル、2-クロロー6-メトキシー3-ピリジル基、 6-クロロ-2-メトキシ-3-ピリジル基、5-メチル-6-クロロ-3-ピリジル基 、5-メトキシー6-クロロー3-ピリジル基、5-エトキシー6-クロロー3-ピリジ ル基、5-クロロー6-メチルー3-ピリジル基、5-メトキシー6-メチルー3-ピリ ジル基、5-エトキシー6-メチルー3-ピリジル基、5-クロロー6-メトキシー3-ピリジル基、5-クロロ-6-エトキシ-3-ピリジル基、2,5,6-トリメチル-3 - ピリジル基、2-ピラジニル基、5-メチル-2-ピラジニル基、6-メチル-2-ピ ラジニル基、5-メトキシー2-ピラジニル基、6-メトキシー2-ピラジニル基、5-エトキシー2-ピラジニル基、6-エトキシー2-ピラジニル基、5-クロロー2-ピラ ジニル基、6-クロロー2-ピラジニル基、3-メチルー2-フリル基、4-メチルー2

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ーフリル基、5ーメチルー2ーフリル基、2ーメチルー3ーフリル基、4ーメチルー3ー フリル基、5-メチルー3-フリル基、3-メトキシー2-フリル基、4-メトキシー2 一フリル基、5ーメトキシー2ーフリル基、2ーメトキシー3ーフリル基、4ーメトキシ - 3 - フリル基、5 - メトキシ-3 - フリル基、3 - クロロ-2 - フリル基、4 - クロロ -2-フリル基、5-クロロ-2-フリル基、2-クロロ-3-フリル基、4-クロロ-3-フリル基、5-クロロ-3-フリル基、3-フルオロ-2-フリル基、4-フルオロ - 2 - フリル基、5 - フルオロ-2 - フリル基、2 - フルオロ-3 - フリル基、4 - フル オロー3ーフリル基、5ーフルオロー3ーフリル基、3ーメチルー2ーチエニル基、4ー メチルー2ーチエニル基、5ーメチルー2ーチエニル基、2ーメチルー3ーチエニル基、 4-メチル-3-チエニル基、5-メチル-3-チエニル基、3-メトキシ-2-チエニ ル基、4-メトキシ-2-チエニル基、5-メトキシ-2-チエニル基、2-メトキシ-3ーチエニル基、4ーメトキシー3ーチエニル基、5ーメトキシー3ーチエニル基、3ー クロロー2ーチエニル基、4ークロロー2ーチエニル基、5ークロロー2ーチエニル基、 2-クロロー3-チエニル基、1-クロロー3-チエニル基、5-クロロー3-チエニル 基、3-フルオロ-2-チエニル基、4-フルオロ-2-チエニル基、5-フルオロ-2 ーチエニル基、2-フルオロー3-チエニル基、4-フルオロー3-チエニル基、5-フ ルオロー3ーチエニル基などが挙げられる。

#### [0011]

一般式(I)において、R<sup>2</sup>で表される置換基としては水酸基、メルカプト基、炭素数1~8のアシルオキシ基、又は炭素数2~8のアルコキシカルボニルオキシ基等が挙げられる。

前記炭素数1~8のアシルオキシ基としては、例えばホルミルオキシ基、アセチルオキシ 基、プロピオニルオキシ基、ブタノイルオキシ基、ペンタノイルオキシ基、ヘキサノイル オキシ基、ヘプタノイルオキシ基、オクタノイルオキシ基、ベンゾイルオキシ基などが挙 げられる。

前記炭素数  $2 \sim 8$ のアルコキシカルボニルオキシ基としては、例えばメトキシカルボニルオキシ基、エトキシカルボニルオキシ基、プロポキシカルボニルオキシ基、ブトキシカルボニルオキシ基、ペンチルオキシカルボニルオキシ基、ヘキシルオキシカルボニルオキシ基、イソプロピルオキシカルボニルオキシ基、イソプチルオキシカルボニルオキシ基、エーブチルオキシカルボニルオキシ基、イソペンチルオキシカルボニルオキシ基、ベンジルオキシカルボニルオキシ基などが挙げられる。

### [0012]

ー般式(I)において、XとしてはN R  $^3$  、酸素原子、又は硫黄原子のいずれかであるが、前記 R  $^3$  は水素原子または炭素数  $1\sim3$  のアルキル基で、当該アルキル基としては、メチル基、エチル基、n - プロピル基、イソプロピル基等である。

一般式(I) Yにおける、窒素原子、酸素原子、または硫黄原子から選択される1もしくフル 2 個の へテロ原子を含む 5 または 6 員単環芳香族 へテロ環としては、チオフェンダスピロール環、イソオキサゾール環、オキサゾール環、ピラジン環、ピラジン環、またはピリダジン環、な2 個のラ環、イミダゾール環、ピラジン環、ピラジン環、またはピリダジン環のショスが挙げられ、変素原子、または元では、ベンゾチオフェン環、ベンゾイミダゾール環、インドール環、ベンゾチアゾール環、ベンゾオキカフェンダスを含む縮合 2 環性芳香族へテロ環としては、ボンゾイミダゾール環、インドール環、ベンゾチアゾール環、ベンゾオキカリン環、ボンリン環などが挙げられる。上記のとしては、非置換でも、またを置れていてもよいである。またはピリジン環がとしては、非置換でも、または1 である場合は1 である場合は1 である場合は1 である場合は1 である場合は1 である場合は1 である場合は、それぞれの置換基によって置換されている場合は、それぞれの置換基によって調整なっていてもよい。例に同一でも異なっていてもよい。

このYの置換基としては炭素数  $1 \sim 4$ のアルキル基、炭素数  $1 \sim 4$ のアルコキシ基、水酸基、メルカプト基、炭素数  $1 \sim 4$ のアルキルチオ基、ハロゲン原子、アミノ基、炭素数  $2 \sim 8$ のジアルキルアミノ基、炭素数  $1 \sim 4$ のモノアルキルアミノ基、  $1 - \ell$ ロリジニル、  $2 - \ell$  ロリジニル基、  $3 - \ell$  ロリジニル基、  $\ell$  ペリジノ基、モルホリノ基、  $3 - \ell$  ルボリニル基等が挙げられる。前記炭素数  $1 \sim 4$  のアルキル基及び炭素数  $1 \sim 4$  のアルコキシ基、  $1 \sim 4$  のアルキルアミノ基及び炭素数  $1 \sim 4$  のアルキルアミノ基中のアルキル基は、 たに述べた  $1 \sim 4$  の場合と同様である。 前記炭素数  $1 \sim 4$  のアルキルチオ基としては、メチルチオ基、  $1 - \ell$  ロピルチオ基、  $1 - \ell$  ロピルチオ国、  $1 - \ell$  ロピルチオ基、  $1 - \ell$  ロピルチオ基、  $1 - \ell$  ロピルチオ基、  $1 - \ell$  ロピルチオ基、  $1 - \ell$  ロピルチオ国、  $1 - \ell$  ロピルチオ基、  $1 - \ell$  ロピルチオ基、  $1 - \ell$  ロピルチオ国、  $1 - \ell$  ロピルチオ基、  $1 - \ell$  ロピルチオ国、  $1 - \ell$  ロピルチオター  $1 - \ell$  ロピルチオター  $1 - \ell$  ロピー  $1 - \ell$ 

[0013]

置換基を有するYとしては、2-メチルー1-ナフチル基、3-メチルー1-ナフチル基 、4-メチル-1-ナフチル基、5-メチル-1-ナフチル基、6-メチル-1-ナフチ ル基、7-メチル-1-ナフチル基、8-メチル-1-ナフチル基、1-メチル-2-ナ フチル基、3-メチル-2-ナフチル基、4-メチル-2-ナフチル基、5-メチル-2 ーナフチル基、6-メチル-2-ナフチル基、7-メチル-2-ナフチル基、8-メチル -2-ナフチル基、2-メトキシ-1-ナフチル基、3-メトキシ-1-ナフチル基、4 ーメトキシー1ーナフチル基、5ーメトキシー1ーナフチル基、6ーメトキシー1ーナフ チル基、7-メトキシー1-ナフチル基、8-メトキシー1-ナフチル基、1-メトキシ - 2 - ナフチル基、3 - メトキシー2 - ナフチル基、4 - メトキシー2 - ナフチル基、5 -メトキシ-2-ナフチル基、6-メトキシ-2-ナフチル基、7-メトキシ-2-ナフ チル基、8-メトキシー2-ナフチル基、2-エトキシ-1-ナフチル基、3-エトキシ - 1 - ナフチル基、4 - エトキシー1 - ナフチル基、5 - エトキシー1 - ナフチル基、6 ーエトキシー1ーナフチル基、7ーエトキシー1ーナフチル基、8ーエトキシー1ーナフ チル基、1-エトキシー2-ナフチル基、3-エトキシー2-ナフチル基、4-エトキシ -2-ナフチル基、5-エトキシ-2-ナフチル基、6-エトキシ-2-ナフチル基、7 ーエトキシー2ーナフチル基、8-エトキシー2ーナフチル基、2-ヒドロキシー1ーナ フチル基、3-ヒドロキシー1-ナフチル基、4-ヒドロキシー1-ナフチル基、5-ヒ ドロキシー1ーナフチル基、6ーヒドロキシー1ーナフチル基、7ーヒドロキシー1ーナ フチル基、8-ヒドロキシ-1-ナフチル基、1-ヒドロキシ-2-ナフチル基、3-ヒ ドロキシー2ーナフチル基、4ーヒドロキシー2ーナフチル基、5ーヒドロキシー2ーナ フチル基、6-ヒドロキシー2-ナフチル基、7-ヒドロキシー2-ナフチル基、8-ヒ ドロキシー2ーナフチル基、2ークロロー1ーナフチル基、3ークロロー1ーナフチル基 、4-クロロ-1-ナフチル基、5-クロロ-1-ナフチル基、6-クロロ-1-ナフチ ル基、7-クロロー1ーナフチル基、8-クロロー1ーナフチル基、1-クロロー2ーナ フチル基、3-クロロ-2-ナフチル基、4-クロロ-2-ナフチル基、5-クロロ-2 ーナフチル基、6-クロロ-2-ナフチル基、7-クロロ-2-ナフチル基、8-クロロ - 2 - ナフチル基、2 - フルオロー1 - ナフチル基、3 - フルオロー1 - ナフチル基、4 -フルオロ-1-ナフチル基、5-フルオロ-1-ナフチル基、6-フルオロ-1-ナフ チル基、7-フルオロー1-ナフチル基、8-フルオロー1-ナフチル基、1-フルオロ -2-ナフチル基、3-フルオロ-2-ナフチル基、4-フルオロ-2-ナフチル基、5 - フルオロー2-ナフチル基、6-フルオロ-2-ナフチル基、7-フルオロ-2-ナフ チル基、8-フルオロ-2-ナフチル基、2-アミノ-1-ナフチル基、3-アミノ-1 ーナフチル基、4-アミノ-1-ナフチル基、5-アミノ-1-ナフチル基、6-アミノ -1-ナフチル基、7-アミノ-1-ナフチル基、8-アミノ-1-ナフチル基、1-ア ミノー2ーナフチル基、3ーアミノー2ーナフチル基、4ーアミノー2ーナフチル基、5 ーアミノー2ーナフチル基、6ーアミノー2ーナフチル基、7ーアミノー2ーナフチル基 、8-アミノー2-ナフチル基、2-メチルアミノー1-ナフチル基、3-メチルアミノ -1-ナフチル基、4-メチルアミノ-1-ナフチル基、5-メチルアミノ-1-ナフチ

ル基、6-メチルアミノ-1-ナフチル基、7-メチルアミノ-1-ナフチル基、8-メ

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チルアミノー1ーナフチル基、1ーメチルアミノー2ーナフチル基、3ーメチルアミノー 2 ーナフチル基、4 ーメチルアミノー2 ーナフチル基、5 ーメチルアミノー2 ーナフチル 基、6-メチルアミノ-2-ナフチル基、7-メチルアミノ-2-ナフチル基、8-メチ ルアミノー2ーナフチル基、2ージメチルアミノー1ーナフチル基、3ージメチルアミノ ー1ーナフチル基、4ージメチルアミノー1ーナフチル基、5ージメチルアミノー1ーナ フチル基、6-ジメチルアミノ-1-ナフチル基、7-ジメチルアミノ-1-ナフチル基 、8-ジメチルアミノー1-ナフチル基、1-ジメチルアミノー2-ナフチル基、3-ジ メチルアミノー2ーナフチル基、4ージメチルアミノー2ーナフチル基、5ージメチルア ミノー2ーナフチル基、6ージメチルアミノー2ーナフチル基、7ージメチルアミノー2 ーナフチル基、8-ジメチルアミノー2-ナフチル基、3-メチル-2-チエニル基、4 ーメチルー2ーチエニル基、5ーメチルー2ーチエニル基、2ーメチルー3ーチエニル基 、4-メチル-3-チエニル基、5-メチル-3-チエニル基、3-メトキシ-2-チエ ニル基、4-メトキシ-2-チエニル基、5-メトキシ-2-チエニル基、2-メトキシ -3-チエニル基、4-メトキシ-3-チエニル基、5-メトキシ-3-チエニル基、3 - クロロー2 - チエニル基、4 - クロロー2 - チエニル基、5 - クロロー2 - チエニル基 2-クロロー3-チエニル基、4-クロロー3-チエニル基、5-クロロー3-チエニ ル基、3-フルオロ-2-チエニル基、4-フルオロ-2-チエニル基、5-フルオロ-2-チエニル基、2-フルオロ-3-チエニル基、4-フルオロ-3-チエニル基、5-フルオロー3ーチエニル基、3ーメチルー2ーフリル基、4ーメチルー2ーフリル基、5 ーメチルー2-フリル基、2-メチルー3-フリル基、4-メチルー3-フリル基、5-メチルー3-フリル基、3-メトキシー2-フリル基、4-メトキシー2-フリル基、5 -メトキシ-2-フリル基、2-メトキシ-3-フリル基、4-メトキシ-3-フリル基 、5 - メトキシ-3-フリル基、3-クロロ-2-フリル基、4-クロロ-2-フリル基 、5-クロロー2-フリル基、2-クロロー3-フリル基、4-クロロー3-フリル基、 5-クロロー3-フリル基、3-フルオロー2-フリル基、4-フルオロー2-フリル基 、5-フルオロ-2-フリル基、2-フルオロ-3-フリル基、4-フルオロ-3-フリ ル基、5-フルオロー3-フリル基、3-メチルー2-ピロリル基、4-メチルー2-ピ ロリル基、5ーメチルー2ーピロリル基、2ーメチルー3ーピロリル基、4ーメチルー3 ーピロリル基、5ーメチルー3ーピロリル基、3ーメトキシー2ーピロリル基、4ーメト キシー2-ピロリル基、5-メトキシー2-ピロリル基、2-メトキシー3-ピロリル基 、4-メトキシー3-ピロリル基、5-メトキシー3-ピロリル基、3-クロロー2-ピ ロリル基、4-クロロー2-ピロリル基、5-クロロー2-ピロリル基、2-クロロー3 ーピロリル基、4ークロロー3ーピロリル基、5ークロロー3ーピロリル基、3ーフルオ ロー2-ピロリル基、4-フルオロー2-ピロリル基、5-フルオロー2-ピロリル基、 2-フルオロ-3-ピロリル基、4-フルオロ-3-ピロリル基、5-フルオロ-3-ピ ロリル基、1-メチル-2-イミダゾリル基、4-メチル-2-イミダゾリル基、1-メ チルー4ーイミダゾリル基、2ーメチルー4ーイミダゾリル基、5ーメチルー4ーイミダ ゾリル基、1-メチルー5-イミダゾリル基、4-メトキシー2-イミダゾリル基、2-メトキシー4ーイミダゾリル基、5ーメトキシー4ーイミダゾリル基、4ークロロー2ー イミダゾリル基、2-クロロー4-イミダゾリル基、5-クロロー4-イミダゾリル基、 4-フルオロー2-イミダゾリル基、2-フルオロー4-イミダゾリル基、5-フルオロ - 4 - イミダゾリル基、2 - メチル-3 - ピリジル基、4 - メチル-3 - ピリジル基、5 -メチル-3-ピリジル基、6-メチル-3-ピリジル基、3-メチル-2-ピリジル基 、4-メチル-2-ピリジル基、5-メチル-2-ピリジル基、6-メチル-2-ピリジ ル基、2-メチル-4-ピリジル基、3-メチル-4-ピリジル基、5-メチル-4-ピ リジル基、6-メチル-4-ピリジル基、2-エチル-3-ピリジル基、4-エチル-3 ーピリジル基、5-エチル-3-ピリジル基、6-エチル-3-ピリジル基、3-メチル - 2 - ピリジル基、4 - メチル-2 - ピリジル基、5 - メチル-2 - ピリジル基、6 - エ チルー2ーピリジル基、2ーエチルー4ーピリジル基、3ーエチルー4ーピリジル基、5 - エチル-4-ピリジル基、6-エチル-4-ピリジル基、2-メトキシ-3-ピリジル

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基、4-メトキシー3-ピリジル基、5-メトキシー3-ピリジル基、6-メトキシー3 ーピリジル基、3-メトキシー2ーピリジル基、4-メトキシー2ーピリジル基、5-メ トキシー2-ピリジル基、6-メトキシー2-ピリジル基、2-メトキシー4-ピリジル 基、3-メトキシー4-ピリジル基、5-メトキシー4-ピリジル基、6-メトキシー4 ーピリジル基、2-エトキシ-3-ピリジル基、4-エトキシ-3-ピリジル基、5-エ トキシー3-ピリジル基、6-エトキシー3-ピリジル基、3-エトキシー2-ピリジル 基、4-エトキシー2-ピリジル基、5-エトキシー2-ピリジル基、6-エトキシー2 - ピリジル基、2-エトキシー4-ピリジル基、3-エトキシー4-ピリジル基、5-エ トキシー4-ピリジル基、6-エトキシー4-ピリジル基、2-ヒドロキシー3-ピリジ ル基、4-ヒドロキシ-3-ピリジル基、5-ヒドロキシ-3-ピリジル基、6-ヒドロ キシー3-ピリジル基、3-ヒドロキシー2-ピリジル基、4-ヒドロキシー2-ピリジ ル基、5-ヒドロキシー2-ピリジル基、6-ヒドロキシー2-ピリジル基、2-ヒドロ キシー4ーピリジル基、3ーヒドロキシー4ーピリジル基、5ーヒドロキシー4ーピリジ ル基、6-ヒドロキシー4-ピリジル基、2-メルカプト-3-ピリジル基、4-メルカ プトー3ーピリジル基、5ーメルカプトー3ーピリジル基、6ーメルカプトー3ーピリジ ル基、3ーメルカプトー2ーピリジル基、4ーメルカプトー2ーピリジル基、5ーメルカ プトー2ーピリジル基、6ーメルカプトー2ーピリジル基、2ーメルカプトー4ーピリジ ル基、3ーメルカプトー4ーピリジル基、5ーメルカプトー4ーピリジル基、6ーメルカ プトー4ーピリジル基、2ーメチルチオー3ーピリジル基、4ーメチルチオー3ーピリジ ル基、5-メチルチオー3-ピリジル基、6-メチルチオー3-ピリジル基、3-メチル チオー2ーピリジル基、4ーメチルチオー2ーピリジル基、5ーメチルチオー2ーピリジ ル基、6-メチルチオ-2-ピリジル基、2-メチルチオ-4-ピリジル基、3-メチル チオー4ーピリジル基、5ーメチルチオー4ーピリジル基、6ーメチルチオー4ーピリジ ル基、2-クロロ-3-ピリジル基、4-クロロ-3-ピリジル基、5-クロロ-3-ピ リジル基、6-クロロー3ーピリジル基、3-クロロー2ーピリジル基、4-クロロー2 ーピリジル基、5-クロロ-2-ピリジル基、6-クロロ-2-ピリジル基、2-クロロ - 4 - ピリジル基、3 - クロロー4 - ピリジル基、5 - クロロー4 - ピリジル基、6 - ク ロロー4ーピリジル基、2ーアミノー3ーピリジル基、4ーアミノー3ーピリジル基、5 ーアミノー3ーピリジル基、6-アミノー3ーピリジル基、3-アミノー2-ピリジル基 、4-アミノー2-ピリジル基、5-アミノー2-ピリジル基、6-アミノー2-ピリジ ル基、2-アミノー4-ピリジル基、3-アミノー4-ピリジル基、5-アミノー4-ピ リジル基、6-アミノー4-ピリジル基、2-モノメチルアミノー3-ピリジル基、4-モノメチルアミノー3ーピリジル基、5ーモノメチルアミノー3ーピリジル基、6ーモノ メチルアミノー3ーピリジル基、3ーモノメチルアミノー2ーピリジル基、4ーモノメチ ルアミノー2ーピリジル基、5ーモノメチルアミノー2ーピリジル基、6ーモノメチルア ミノー2-ピリジル基、2-モノメチルアミノ-4-ピリジル基、3-モノメチルアミノ - 4 - ピリジル基、5 - モノメチルアミノ-4 - ピリジル基、6 - モノメチルアミノ-4 ーピリジル基、2-ジメチルアミノー3-ピリジル基、4-ジメチルアミノー3-ピリジ ル基、5ージメチルアミノー3ーピリジル基、6ージメチルアミノー3ーピリジル基、3 -ジメチルアミノ-2-ピリジル基、4-ジメチルアミノ-2-ピリジル基、5-ジメチ ルアミノー2ーピリジル基、6ージメチルアミノー2ーピリジル基、2ージメチルアミノ ー4ーピリジル基、3ージメチルアミノー4ーピリジル基、5ージメチルアミノー4ーピ リジル基、6-ジメチルアミノー4ーピリジル基、2-(1-ピロリジニル)-3-ピリ ジル基、4-(1-ピロリジニル)-3-ピリジル基、5-(1-ピロリジニル)-3-ピリジル基、6-(1-ピロリジニル)-3-ピリジル基、3-(1-ピロリジニル)-2 ーピリジル基、4 ー (1 ーピロリジニル) ー 2 ーピリジル基、5 ー (1 ーピロリジニル ) - 2 - ピリジル基、6 - (1 - ピロリジニル) - 2 - ピリジル基、2 - (1 - ピロリジ ニル)ー4ーピリジル基、3ー(1ーピロリジニル)-4ーピリジル基、5ー(1ーピロ リジニル)-4-ピリジル基、6-(1-ピロリジニル)-4-ピリジル基、2-ピペリ ジノー 3 - ピリジル 基 、 4 - ピペリジノー 3 - ピリジル 基 、 5 - ピペリジノー 3 - ピリジ

ル 基、 6 ーピペリジノー 3 ーピリジル 基、 3 ーピペリジノー 2 ーピリジル 基、 4 ーピペリ ジノー 2 ーピリジル基、 5 ーピペリジノー 2 ーピリジル基、 6 ーピペリジノー 2 ーピリジ ル基、2-ピペリジノー4ーピリジル基、3-ピペリジノー4ーピリジル基、5ーピペリ ジノー 4 ーピリジル基、 6 ーピペリジノー 4 ーピリジル基、 2 ーモルホリノー 3 ーピリジ ル基、4-モルホリノ-3-ピリジル基、5-モルホリノ-3-ピリジル基、6-モルホ リノー3ーピリジル基、3ーモルホリノー2ーピリジル基、4ーモルホリノー2ーピリジ ル基、5ーモルホリノー2ーピリジル基、6ーモルホリノー2ーピリジル基、2ーモルホ リノー4ーピリジル基、3ーモルホリノー4ーピリジル基、5ーモルホリノー4ーピリジ ル基、6-モルホリノー4-ピリジル基、2-フルオロー3-ピリジル基、4-フルオロ -3-ピリジル基、5-フルオロ-3-ピリジル基、6-フルオロ-3-ピリジル基、3 ーフルオロー2ーピリジル基、4ーフルオロー2ーピリジル基、5ーフルオロー2ーピリ ジル基、6-フルオロー2-ピリジル基、2-フルオロー4-ピリジル基、3-フルオロ - 4 - ピリジル基、5 - フルオロ - 4 - ピリジル基、6 - フルオロ - 4 - ピリジル基、2 . 4 - ジメチル - 3 - ピリジル 基、2, 6 - ジメチル - 3 - ピリジル 基、5, 6 - ジメチ ルー3ーピリジル基、4、6ージメチルー3ーピリジル基、4、5ージメチルー2ーピリ ジル基、5,6ージメチルー2ーピリジル基、2,3ージメチルー4ーピリジル基、2, 6 ージメチルー4ーピリジル基、2, 4ージメトキシー3ーピリジル基、2, 6ージメト キシー3ーピリジル基、5,6-ジメトキシー3-ピリジル基、4,6-ジメトキシー3 ーピリジル基、4,5ージメトキシー2ーピリジル基、5,6ージメトキシー2ーピリジ ル基、2、3-ジメトキシー4-ピリジル基、2、6-ジメトキシー4-ピリジル基、2 ークロロー6-メチルー3-ピリジル基、6-クロロー2-メチルー3-ピリジル、2-クロロー6-メトキシー3-ピリジル基、6-クロロー2-メトキシー3-ピリジル基、 5-メチルー6-クロロー3-ピリジル基、5-メトキシー6-クロロー3-ピリジル基 、5-エトキシー6-クロロー3-ピリジル基、5-クロロー6-メチルー3-ピリジル 基、5ーメトキシー6ーメチルー3ーピリジル基、5ーエトキシー6ーメチルー3ーピリ ジル基、5-クロロー6-メトキシー3-ピリジル基、5-クロロー6-エトキシー3-ピリジル基、2、5、6-トリメチル-3-ピリジル基、2-ピラジニル基、5-メチル - 2 - ピラジニル基、 6 - メチル - 2 - ピラジニル基、 5 - メトキシ- 2 - ピラジニル基 、6-メトキシー2-ピラジニル基、5-エトキシー2-ピラジニル基、6-エトキシー 2-ピラジニル基、5-クロロ-2-ピラジニル基、6-クロロ-2-ピラジニル基、3 ーメチルー2ーベンゾチエニル基、4ーメチルー2ーベンゾチエニル基、5ーメチルー2 ーベンゾチエニル基、6-メチル-2-ベンゾチエニル基、7-メチル-2-ベンゾチエ ニル基、2ーメチルー3ーベンゾチエニル基、4ーメチルー3ーベンゾチエニル基、5ー メチルー3-ベンゾチエニル基、6-メチルー3-ベンゾチエニル基、7-メチルー3-ベンゾチエニル基、2-メチルー5-ベンゾチエニル基、3-メチルー5-ベンゾチエニ ル基、4-メチルー5-ベンゾチエニル基、6-メチルー5-ベンゾチエニル基、7-メ チルー5-ベンゾチエニル基、3-メトキシー2-ベンゾチエニル基、4-メトキシー2 ーベンゾチエニル基、5-メトキシー2-ベンゾチエニル基、6-メトキシー2-ベンゾ チエニル基、7-メトキシー2-ベンゾチエニル基、2-メトキシー3-ベンゾチエニル 基、4-メトキシー3-ベンゾチエニル基、5-メトキシー3-ベンゾチエニル基、6-メトキシー3ーベンゾチエニル基、7ーメトキシー3ーベンゾチエニル基、2ーメトキシ -5-ベンゾチエニル基、3-メトキシ-5-ベンゾチエニル基、4-メトキシ-5-ベ ンゾチエニル基、6-メトキシー5-ベンゾチエニル基、7-メトキシー5-ベンゾチエ ニル基、3-クロロ-2-ベンゾチエニル基、4-クロロ-2-ベンゾチエニル基、5-クロロー2ーベンゾチエニル基、6ークロロー2ーベンゾチエニル基、7ークロロー2ー ベンゾチエニル基、2ークロロー3ーベンゾチエニル基、4ークロロー3ーベンゾチエニ ル基、5-クロロ-3-ベンゾチエニル基、6-クロロ-3-ベンゾチエニル基、7-ク ロロー3ーベンゾチエニル基、2ークロロー5ーベンゾチエニル基、3ークロロー5ーベ ンゾチエニル基、4ークロロー5ーベンゾチエニル基、6ークロロー5ーベンゾチエニル 基、7-クロロー5-ベンゾチエニル基、3-フルオロー2-ベンゾチエニル基、4-フ

ルオロー2ーベンゾチエニル基、5ーフルオロー2ーベンゾチエニル基、6ーフルオロー 2-ベンゾチエニル基、7-フルオロ-2-ベンゾチエニル基、2-フルオロ-3-ベン ゾチエニル基、4-フルオロー3-ベンゾチエニル基、5-フルオロー3-ベンゾチエニ ル基、6-フルオロ-3-ベンゾチエニル基、7-フルオロ-3-ベンゾチエニル基、2 ーフルオロー5-ベンゾチエニル基、3-フルオロー5-ベンゾチエニル基、4-フルオ ロー5-ベンゾチエニル基、6-フルオロー5-ベンゾチエニル基、7-フルオロー5-ベンゾチエニル基、3ーメチルー2ーベンゾフリル基、4ーメチルー2ーベンゾフリル基 、5-メチル-2-ベンゾフリル基、6-メチル-2-ベンゾフリル基、7-メチル-2 ーベンゾフリル基、2-メチルー3-ベンゾフリル基、4-メチルー3-ベンゾフリル基 、5-メチルー3-ベンゾフリル基、6-メチルー3-ベンゾフリル基、7-メチルー3 ーベンゾフリル基、2-メチルー5-ベンゾフリル基、3-メチルー5-ベンゾフリル基 、4ーメチルー5ーベンゾフリル基、6ーメチルー5ーベンゾフリル基、7ーメチルー5 ーベンゾフリル基、3-メトキシー2-ベンゾフリル基、4-メトキシー2-ベンゾフリ ル基、5-メトキシー2-ベンゾフリル基、6-メトキシー2-ベンゾフリル基、7-メ トキシー2-ベンゾフリル基、2-メトキシー3-ベンゾフリル基、4-メトキシー3-ベンゾフリル基、5-メトキシー3-ベンゾフリル基、6-メトキシー3-ベンゾフリル 基、7-メトキシー3-ベンゾフリル基、2-メトキシー5-ベンゾフリル基、3-メト キシー5-ベンゾフリル基、4-メトキシー5-ベンゾフリル基、6-メトキシー5-ベ ンゾフリル基、7-メトキシー5-ベンゾフリル基、3-クロロー2-ベンゾフリル基、 4 ークロロー2 ーベンゾフリル基、5 ークロロー2 ーベンゾフリル基、6 ークロロー2 ー ベンゾフリル基、7-クロロー2ーベンゾフリル基、2-クロロー3ーベンゾフリル基、 4 ークロロー3 ーベンゾフリル基、5 ークロロー3 ーベンゾフリル基、6 ークロロー3 ー ベンゾフリル基、7-クロロ-3-ベンゾフリル基、2-クロロ-5-ベンゾフリル基、 3-クロロー5-ベンゾフリル基、4-クロロー5-ベンゾフリル基、6-クロロー5-ベンゾフリル基、7-クロロー5ーベンゾフリル基、3-フルオロー2-ベンゾフリル基 、4-フルオロー2-ベンゾフリル基、5-フルオロー2-ベンゾフリル基、6-フルオ ロー2ーベンゾフリル基、7ーフルオロー2ーベンゾフリル基、2ーフルオロー3ーベン ゾフリル基、4-フルオロ-3-ベンゾフリル基、5-フルオロ-3-ベンゾフリル基、 6 - フルオロー3 - ベンゾフリル基、7 - フルオロ-3 - ベンゾフリル基、2 - フルオロ - 5 - ベンゾフリル基、3-フルオロ-5-ベンゾフリル基、4-フルオロ-5-ベンゾ フリル基、6-フルオロー5-ベンゾフリル基、7-フルオロー5-ベンゾフリル基、1 ーメチルー2-インドリル基、3-メチルー2-インドリル基、4-メチルー2-インド リル基、5-メチル-2-インドリル基、6-メチル-2-インドリル基、7-メチル-2-インドリル基、1-メチル-3-インドリル基、2-メチル-3-インドリル基、4 ーメチルー3ーインドリル基、5ーメチルー3ーインドリル基、6ーメチルー3ーインド リル基、7-メチルー3ーインドリル基、1-メチルー5-インドリル基、2-メチルー 5 ーインドリル基、3 ーメチルー5 ーインドリル基、4 ーメチルー5 ーインドリル基、6 - メチル-5-インドリル基、7-メチル-5-インドリル基、3-メトキシ-2-イン ドリル基、4-メトキシー2-インドリル基、5-メトキシー2-インドリル基、6-メ トキシー2ーインドリル基、7ーメトキシー2ーインドリル基、2ーメトキシー3ーイン ドリル基、4-メトキシ-3-インドリル基、5-メトキシ-3-インドリル基、6-メ トキシー3-インドリル基、7-メトキシー3-インドリル基、2-メトキシー5-イン ドリル基、3-メトキシ-5-インドリル基、4-メトキシ-5-インドリル基、6-メ トキシー5ーインドリル基、7ーメトキシー5ーインドリル基、3ークロロー2ーインド リル基、4-クロロー2-インドリル基、5-クロロー2-インドリル基、6-クロロー 2 ーインドリル基、 7 ークロロー 2 ーインドリル基、 2 ークロロー 3 ーインドリル基、 4 ークロロー3ーインドリル基、5ークロロー3ーインドリル基、6ークロロー3ーインド リル基、7-クロロー3-インドリル基、2-クロロー5-インドリル基、3-クロロー 5 ーインドリル基、4 ークロロー5 ーインドリル基、6 ークロロー5 ーインドリル基、7 ークロロー5ーインドリル基、3ーフルオロー2ーインドリル基、4ーフルオロー2ーイ

ンドリル基、5-フルオロー2-インドリル基、6-フルオロー2-インドリル基、7-フルオロー2ーインドリル基、2ーフルオロー3-インドリル基、4-フルオロー3-イ ンドリル基、5-フルオロー3-インドリル基、6-フルオロー3-インドリル基、7-フルオロー3-インドリル基、2-フルオロー5-インドリル基、3-フルオロー5-イ ンドリル基、4-フルオロー5-インドリル基、6-フルオロー5-インドリル基、7-フルオロー5-インドリル基、3-メチルー2-キノリル基、4-メチルー2-キノリル 基、 5 -メチル-2-キノリル基、 6 -メチル-2-キノリル基、 7 -メチル-2-キノ リル基、8-メチル-2-キノリル基、2-メチル-4-キノリル基、3-メチル-4-キノリル基、5-メチル-4-キノリル基、6-メチル-4-キノリル基、7-メチル-4-キノリル基、8-メチル-4-キノリル基、2-メチル-6-キノリル基、3-メチ ルー6ーキノリル基、4ーメチルー6ーキノリル基、5ーメチルー6ーキノリル基、7ー メチルー6ーキノリル基、8ーメチルー6ーキノリル基、3ーメトキシー2ーキノリル基 4 - メトキシー2 - キノリル基、5 - メトキシー2 - キノリル基、6 - メトキシー2 -キノリル 基、 7 ーメトキシー 2 ーキノリル 基、 8 ーメトキシー 2 ーキノリル 基、 2 ーメト キシー4ーキノリル基、3ーメトキシー4ーキノリル基、5ーメトキシー4ーキノリル基 、6-メトキシー4-キノリル基、7-メトキシー4-キノリル基、8-メトキシー4-キノリル基、2-メトキシー6-キノリル基、3-メトキシー6-キノリル基、4-メト キシー6ーキノリル基、5ーメトキシー6ーキノリル基、7ーメトキシー6ーキノリル基 、8-メトキシ-6-キノリル基、3-クロロ-2-キノリル基、4-クロロ-2-キノ リル基、5-クロロ-2-キノリル基、6-クロロ-2-キノリル基、7-クロロ-2-キノリル基、8-クロロ-2-キノリル基、2-クロロ-4-キノリル基、3-クロロ-4 ーキノリル基、5 ークロロー4 ーキノリル基、6 ークロロー4 ーキノリル基、7 ークロ ロー4ーキノリル基、8ークロロー4ーキノリル基、2ークロロー6ーキノリル基、3ー クロロー6ーキノリル基、4ークロロー6ーキノリル基、5ークロロー6ーキノリル基、 7 ークロロー6 ーキノリル基、8 ークロロー6 ーキノリル基、3 ーフルオロー2 ーキノリ ル基、4-フルオロー2-キノリル基、5-フルオロー2-キノリル基、6-フルオロー 2 ーキノリル基、 7 ーフルオロー 2 ーキノリル基、 8 ーフルオロー 2 ーキノリル基、 2 ー フルオロー4ーキノリル基、3ーフルオロー4ーキノリル基、5ーフルオロー4ーキノリ ル基、6-フルオロー4-キノリル基、7-フルオロー4-キノリル基、8-フルオロー 4-キノリル基、2-フルオロー6-キノリル基、3-フルオロー6-キノリル基、4-フルオロー6ーキノリル基、5ーフルオロー6ーキノリル基、7ーフルオロー6ーキノリ ル基、8-フルオロー6-キノリル基などが挙げられる。

[0014]

前記一般式(I)において、さらに好ましいXとしてはNHまたは酸素原子が挙げられる。特にはNHが好ましい。

前記一般式(I)においてさらに好ましい R  $^-$  としては炭素数  $1 \sim 6$  個のアルキル基、炭素数  $2 \sim 6$  個のアルケニル基、炭素数  $2 \sim 6$  個のアルケニル基、炭素数  $2 \sim 6$  個のアルキニル基が挙げられ、例えばメチル基、エチル基、プロピル基、イソプロピル基、ブチル基、 2 - ブチル基、 2 - ブラニル基、 2 - ブラニル国、 2 -

前記一般式(I)においてさらに好ましい R  $^2$  としては例えば水酸基、アセチルオキシ基、プロピオニルオキシ基、メトキシカルボニルオキシ基、エトキシカルボニルオキシ基、プロポキシカルボニルオキシ基、ブトキシカルボニルオキシ基などが挙げられ、特には水酸基、メトキシカルボニルオキシ基、エトキシカルボニルオキシ基が好ましい。

前記一般式(I)においてさらに好ましいYとしては、それぞれ置換もしくは非置換の、 ピリジン環(2-ピリジル、3-ピリジル、4-ピリジル)及びピラジン環(2-ピラジ ニル、3-ピラジニル)が挙げられ、特に3-ピリジル基が好ましい。さらに好ましい置換基を有したYとしては、例えば、2-メチル-3-ピリジル基、<math>6-xチル-3-ピリジル基、2-x トキシー3-ピリジル基、2-x トキシー3-ピリジル基が好ましい。

本発明に具体的に含まれる化合物としては、例えば以下の化合物が挙げられる。

[0015]

【表1】

X	R <sup>1</sup>	R <sup>2</sup>	Y
NH	propyl	OH	2-pyridyl
NH	propyl	OH	
NH	propyl	OH.	3-pyridyl
NH	propyl	OH	4-pyridyl
NH		OH	2-methyl-3-pyridyl
NH	propyl	OH	4-methyl-3-pyridyl
NH	propyl	OH	5-methyl-3-pyridyl
NH	propyl	OH	6-methyl-3-pyridyl
NH	propyl propyl	OH	2-ethyl-3-pyridyl
NH	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	OH	4-ethyl-3-pyridyl
NH	propyl propyl	OH	5-ethyl-3-pyridyl
NH		OH	6-ethyl-3-pyridyl
NH	propyl propyl	OH	2-methoxy-3-pyridyl
NH	propyl		4-methoxy-3-pyridyl
NH	propyl	OH	5-methoxy-3-pyridyl
NH	propyl	OH	6-methoxy-3-pyridyl
NH	propyl	OH	2-ethoxy-3-pyridyl 4-ethoxy-3-pyridyl
NH	propyl	OH	5-ethoxy-3-pyridyl
NH	propyl	OH	6-ethoxy-3-pyridyl
NH	propyl	ОН	2-chloro-3-pyridyl
NH	propyl	OH	4-chloro-3-pyridyl
NH	propyl	OH	5-chloro-3-pyridyl
NH	propyl	OH	6-chloro-3-pyridyl
NH	propyl	OH	2-fluoro-3-pyridyl
NH	propyl	OH	4-fluoro-3-pyridyl
NH	propyl	OH	5-fluoro-3-pyridyl
NH	propyl	ОН	6-fluoro-3-pyridyl
NH	propyl	OH	2-dimethylamino-3-pyridyl
NH	propyl	OH	4-dimethylamino-3-pyridyl
NH	propyl	ОН	5-dimethylamino-3-pyridyl
NH	propyl	OH	6-dimethylamino-3-pyridyl
NH	propyl	OH	2-(1-pyrrolidinyl)-3-pyridyl
NH	propyl	OH	3-(1-pyrrolidinyl)-3-pyridyl
NH	propyl	OH	5-(1-pyrrolidinyl)-3-pyridyl
NH	propyl	OH	6-(1-pyrrolidinyl)-3-pyridyl
NH	propyl	OH	· 2-piperidino-3-pyridyl
NH	propyl	OH	4-piperidino-3-pyridyl
NH	propyl	OH	5-piperidino-3-pyridyl
NH	propyl	OH	6-piperidino-3-pyridyl
NH	propyl	OH	2-morpholino-3-pyridyl
NH	propyl	OH	4-morpholino-3-pyridyl
NH	propyl	OH	5-morpholino-3-pyridyl
NH	propyl	OH	6-morpholino-3-pyridyl
NH	propyl	OH	2-hydroxy-3-pyridyl
NH	propyl	OH	4-hydroxy-8-pyridyl
NH	propyl	OH	5-hydroxy-3-pyridyl
NH	propyl	OH	6-hydroxy-3-pyridyl
	Propji	VAI.	l o-mydroxy-d-pyridyi

NH propyl OH 2-mercapto-3-pyridyl
NH propyl OH 4-mercapto-3-pyridyl
NH propyl OH 5-mercapto-3-pyridyl
NH propyl OH 6-mercapto-3-pyridyl
NH propyl OH 2-methylthio-3-pyridyl
NH propyl OH 4-methylthio-3-pyridyl
NH propyl OH 5-methylthio-3-pyridyl
NH propyl OH 6-methylthio-3-pyridyl
NH propyl OH 2,6-dimethyl-3-pyridyl
NH propyl OH 5,6-dimethyl-3-pyridyl
NH propyl OH 2,6-diethyl-3-pyridyl
NH propyl OH 5,6-diethyl-3-pyridyl
NH propyl OH 2,6-dimethoxy-3-pyridyl
NH propyl OH 5,6-dimethoxy-3-pyridyl
NH propyl OH 2,6-diethoxy-3-pyridyl
NH propyl OH 5,6-diethoxy-3-pyridyl
NH propyl OH 2,6-dichloro-3-pyridyl
NH propyl OH 5,6-dichloro-3-pyridyl
NH propyl OH 5-chloro-6-methoxy-3-pyridyl
NH propyl OH 5-chloro-6-ethoxy-3-pyridyl
NH propyl OH 2-chloro-6-methyl-3-pyridyl
NH propyl OH 6-chloro-2-methyl-3-pyridyl
NH propyl OH 2-methyl-4-pyridyl
NH propyl OH 2-ethyl-4-pyridyl
NH propyl OH 2-methoxy-4-pyridyl
NH propyl OH 2-ethoxy-4-pyridyl
NH propyl OH 2-chloro-4-pyridyl
NH propyl OH 2-dimethylamino-4-pyridyl
NH propyl OH 2-(1-pyrrolidinyl)-4-pyridyl
NH propyl OH 2-piperidino-4-pyridyl
NH propyl OH 2-morpholino-4-pyridyl
NH propyl OH 2-methylthio-4-pyridyl
NH propyl OH 2-pyrazinyl
NH propyl OH 5-methyl-2-pyrazinyl
NH propyl OH 5-ethyl-2-pyrazinyl
NH propyl OH 5-methoxy-2-pyrazinyl
NH propyl OH 5-ethoxy-2-pyrazinyl
NH propyl OH 5-chloro-2-pyrazinyl
NH propyl OH 6-methyl-2-pyrazinyl
NH propyl OH 6-methoxy-2-pyrazinyl NH propyl OH 6-chlore-2-pyrazinyl

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X	$\mathbb{R}^1$	R <sup>2</sup>	Y
NH	propyl	OCOOMe	2-pyridyl
NH	propyl	OCOOMe	3-pyridyl
NH	propyl	OCOOMe	4-pyridyl
NH	propyl	OCOOMe OCOOMe	2-methyl-3-pyridyl
NH	*******	OCOOMe	
NH	propyl	OCOOMe	4-methyl-3-pyridyl
NH	propyl	OCOOMe OCOOMe	5-methyl-3-pyridyl
NH	propyl		6-methyl-3-pyridyl
NH	propyl	OCOOMe OCOOMe	2-ethyl-3-pyridyl
NH	propyl		4-ethyl-3-pyridyl
NH	propyl	OCOOMe	5-ethyl-3-pyridyl
	propyl	OCOOMe	6-ethyl-3-pyridyl
NH	propyl	OCOOMe	2-methoxy-3-pyridyl
NH	propyl	OCOOMe	4-methoxy-3-pyridyl
NH	propyl	OCOOMe	5-methoxy-3-pyridyl
NH	propyl	OCOOMe	6-methoxy-3-pyridyl
NH	propyl	OCOOMe	2-ethoxy-3-pyridyl
NH	propyl	OCOOMe	4-ethoxy-3-pyridyl
NH	propyl	OCOOMe	5-ethoxy-3-pyridyl
NH	propyl	OCOOMe	6-ethoxy-3-pyridyl
NH	propyl	OCOOMe	2-chloro-3-pyridyl
NH	propyl	OCOOMe	4-chloro-3-pyridyl
NH	propyl	OCOOMe	5-chloro-3-pyridyl
NH	propyl	OCOOMe	6-chloro-3-pyridyl
NH	propyl	OCOOMe	2-fluoro-3-pyridyl
NH	propyl	OCOOMe	4-fluoro-3-pyridyl
NH	propyl	OCOOMe	5-fluoro-3-pyridyl
NH	propyl	OCOOMe	6-fluoro-3-pyridyl
NH	propyl	OCOOMe	2-dimethylamino-3-pyridyl
NH	propyl	OCOOMe	4-dimethylamino-3-pyridyl
NH	propyl	OCOOMe	5-dimethylamino-3-pyridyl
NH	propyl	OCOOMe	6-dimethylamino-3-pyridyl
NH	propyl	OCOOMe	2-(1-pyrrolidinyl)-3-pyridyl
NH	propyl	OCOOMe	3-(1-pyrrolidinyl)-3-pyridyl
NH	propyl	OCOOMe	5-(1-pyrrolidinyl)-3-pyridyl
NH	propyl	OCOOMe	6-(1-pyrrolidinyl)-3-pyridyl
NH	propyl	OCOOMe	2-piperidino-3-pyridyl
NH	propyl	OCOOMe	4-piperidino-3-pyridyl
NH	propyl	OCOOMe	5-piperidino-3-pyridyl
HN	propyl	OCOOMe	6-piperidino-3-pyridyl
HI	propyl	OCOOMe	2-morpholino-3-pyridyl
NH	propyl	OCOOMe	4-morpholino-3-pyridyl
NH	propyl	OCOOMe	5-morpholino-3-pyridyl
NH	propyl	OCOOMe	6-morpholino-3-pyridyl
NH	propyl	OCOOMe	2-hydroxy-3-pyridyl
NH	propyl	OCOOMe	4-hydroxy-3-pyridyl
NH	propyl	OCOOMe	5-hydroxy-3-pyridyl
NH	propyl	OCOOMe	6-hydroxy-3-pyridyl

NH	propyl	OCOOMe	2-mercapto-3-pyridyl
NH	propyl	OCOOMe	4-mercapto-3-pyridyl
NH	propyl	OCOOMe	5-mercapto-3-pyridyl
NH	propyl	OCOOMe	6-mercapto-3-pyridyl
NH	propyl	OCOOMe OCOOMe	2-methylthio-3-pyridyl
NH	propyl	OCOOMe	4-methylthio-3-pyridyl
NH	propyl	OCOOMe	5-methylthio-3-pyridyl
NH	propyl	OCOOMe	6-methylthio-3-pyridyl
NH	propyl	OCOOMe	2,6-dimethyl-3-pyridyl
NH		OCOOMe	-1
NH	propyl		5,6-dimethyl-3-pyridyl
NH	propyl	OCOOMe OCOOMe	2,6-diethyl-3-pyridyl
	propyl	ļ	5,6-diethyl-3-pyridyl
NH	propyl	OCOOMe	2,6-dimethoxy-3-pyridyl
NH	propyl	OCOOMe	5,6-dimethoxy-3-pyridyl
NH	propyl	OCOOMe	2,6-diethoxy-3-pyridyl
NH	propyl	OCOOMe	5,6-diethoxy-3-pyridyl
NH	propyl	OCOOMe	2,6-dichloro-3-pyridyl
NH	propyl	OCOOMe	5,6-dichloro-3-pyridyl
NH	propyl	OCOOMe	5-chloro-6-methoxy-3-pyridyl
NH	propyl	OCOOMe	5-chloro-6-ethoxy-3-pyridyl
NH	propyl	OCOOMe	2-chloro-6-methyl-3-pyridyl
NH	propyl	OCOOMe	6-chloro-2-methyl-3-pyridyl
NH	propyl	OCOOMe	2-methyl-4-pyridyl
NH	propyl	OCOOMe	2-ethyl-4-pyridyl
NH	propyl	OCOOMe	2-methoxy-4-pyridyl
NH	propyl	OCOOMe	2-ethoxy-4-pyridyl
NH	propyl	OCOOMe	2-chloro-4-pyridyl
NH	propyl	OCOOMe	2-dimethylamino-4-pyridyl
NH	propyl	OCOOMe	2-(1-pyrrolidinyl)-4-pyridyl
NH	propyl	OCOOMe	2-piperidino-4-pyridyl
NH	propyl	OCOOMe	2-morpholino-4-pyridyl
NH	propyl	OCOOMe	2-methylthio-4-pyridyl
NH	propyl	OCOOMe	2-pyrazinyl
NH	propyl	OCOOMe	5-methyl-2-pyrazinyl
NH	propyl	OCOOMe	5-ethyl-2-pyrazinyl
NH	propyl	OCOOMe	5-methoxy-2-pyrazinyl
NH	propyl	OCOOMe	5-ethoxy-2-pyrazinyl
NH	propyl	OCOOMe	5-chloro-2-pyrazinyl
NH	propyl	OCOOMe	6-methyl-2-pyrazinyl
NH	propyl	OCOOMe	6-methoxy-2-pyrazinyl
NH	propyl	OCOOMe ,	6-chloro-2-pyrazinyl

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X	R <sup>1</sup>	$\mathbb{R}^2$	Y
NH	propyl	OCOOEt	2-pyridyl
NH	propyl	OCOOEt	3-pyridyl
NH	propyl	OCOOEt	4-pyridyl
NH	propyl	OCOOEt	2-methyl-3-pyridyl
NH	propyl	OCOOEt	4-methyl-3-pyridyl
NH	propyl	OCOOEt	5-methyl-3-pyridyl
NH	propyl	OCOOEt	6-methyl-3-pyridyl
NH	propyl	OCOOEt	2-ethyl-3-pyridyl
NH	propyl	OCOOEt	4-ethyl-3-pyridyl
NH	propyl	OCOOEt	5-ethyl-3-pyridyl
NH	propyl	OCOOEt	6-ethyl-3-pyridyl
NH	propyl	OCOOEt	2-methoxy-3-pyridyl
NH	propyl	OCOOEt	4-methoxy-3-pyridyl
NH	propyl	OCOOEt	5-methoxy-3-pyridyl
NH	propyl	OCOOEt	6-methoxy-3-pyridyl
NH	propyl	OCOOEt	2-ethoxy-3-pyridyl
NH	propyl	OCOOEt	4-ethoxy-3-pyridyl
NH	propyl	OCOOEt	5-ethoxy-3-pyridyl
NH	propyl	OCOOEt	6-ethoxy-3-pyridyl
NH	propyl	OCOOEt	2-chloro-3-pyridyl
NH	propyl	OCOOEt	4-chloro-3-pyridyl
NH	propyl	OCOOEt	5-chloro-3-pyridyl
NH	propyl	OCOOEt	6-chloro-3-pyridyl
NH	propyl	OCOOEt	2-fluoro-3-pyridyl
NH	propyl	OCOOEt	4-fluoro-3-pyridyl
NH	propyl	OCOOEt	5-fluoro-3-pyridyl
ИН	propyl	OCOOEt	6-fluoro-3-pyridyl
NH	propyl	OCOOEt	2-dimethylamino-3-pyridyl
NH	propyl	OCOOEt	4-dimethylamino-3-pyridyl
NH	propyl	OCOOEt	5-dimethylamino-3-pyridyl
NH	propyl	OCOOEt	6-dimethylamino-3-pyridyl
NH	propyl	OCOOEt	2-(1-pyrrolidinyl)-3-pyridyl
NH	propyl	OCOOEt	3-(1-pyrrolidinyl)-3-pyridyl
NH	propyl	OCOOEt	5-(1-pyrrolidinyl)-3-pyridyl
NH	propyl	OCOOEt	6-(1-pyrrolidinyl)-3-pyridyl
NH	propyl	OCOOEt	2-piperidino-3-pyridyl
NH	propyl	OCOOEt	4-piperidino-3-pyridyl
NH	propyl	OCOOEt	5-piperidino-3-pyridyl
NH	рторуі	OCOOEt	6-piperidino-3-pyridyl
NH	propyl	OCOOEt	2-morpholino-3-pyridyl
NH	propyl	OCOOEt	4-morpholino-3-pyridyl
NH	propyl	OCOOEt	5-morpholino-3-pyridyl
NH	propyl	OCOOEt	6-morpholino-3-pyridyl
NH	propyl	OCOOEt	2-hydroxy-3-pyridyl
NH	propyl	OCOOEt	4-hydroxy-3-pyridyl
NH	propyl	OCOOEt	5-hydroxy-3-pyridyl
NH	propyl	OCOOEt	6-hydroxy-3-pyridyl
	A I J		5 Jacon J o Pittayi

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NH	propyl	OCOOEt	2-mercapto-3-pyridyl
NH	propyl	OCOOEt	4-mercapto-3-pyridyl
NH	propyl	OCOOEt	5-mercapto-3-pyridyl
NH	propyl	OCOOEt	6-mercapto-3-pyridyl
NH	propyl	OCOOEt	2-methylthio-3-pyridyl
NH	propyl	OCOOEt	4-methylthio-3-pyridyl
NH	propyl	OCOOEt	5-methylthio-3-pyridyl
NH	propyl	OCOOEt	6-methylthio-3-pyridyl
NH	propyl	OCOOEt	2,6-dimethyl-3-pyridyl
NH	propyl	OCOOEt	5,6-dimethyl-3-pyridyl
NH	propyl	OCOOEt	2,6-diethyl-3-pyridyl
NH	propyl	OCOOEt	5,6-diethyl-3-pyridyl
NH	propyl	OCOOEt	2,6-dimethoxy-3-pyridyl
NH	propyl	OCOOEt	5,6-dimethoxy-3-pyridyl
NH	propyl	OCOOEt	2,6-diethoxy-3-pyridyl
NH	propyl	OCOOEt	5,6-diethoxy-3-pyridyl
NH	propyl	OCOOEt	2,6-dichloro-3-pyridyl
NH	propyl	OCOOEt	5,6-dichloro-3-pyridyl
NH	propyl	OCOOEt	5-chloro-6-methoxy-3-pyridyl
NH	propyl	OCOOEt	5-chloro-6-ethoxy-3-pyridyl
NH	propyl	OCOOEt	2-chloro-6-methyl-3-pyridyl
NH	propyl	OCOOEt	6-chloro-2-methyl-3-pyridyl
NH	propyl	OCOOEt	2-methyl-4-pyridyl
NH	propyl	OCOOEt	2-ethyl-4-pyridyl
NH	propyl	OCOOEt	2-methoxy-4-pyridyl
NH	propyl	OCOOEt	2-ethoxy-4-pyridyl
NH	propyl	OCOOEt	2-chloro-4-pyridyl
NH	propyl	OCOOEt	2-dimethylamino-4-pyridyl
NH	propyl	OCOOEt	2-(1-pyrrolidinyl)-4-pyridyl
NH	propyl	OCOOEt	2-piperidino-4-pyridyl
NH	propyl	OCOOEt	2-morpholino-4-pyridyl
NH	propyl	OCOOEt	2-methylthio-4-pyridyl
NH	propyl	OCOOEt	2-pyrazinyl
NH	propyl	OCOOEt	5-methyl-2-pyrazinyl
NH	propyl	OCOOEt	5-ethyl-2-pyrazinyl
NH	propyl	OCOOEt	5-methoxy-2-pyrazinyl
NH	propyl	OCOOEt	5-ethoxy-2-pyrazinyl
NH	propyl	OCOOEt	5-chloro-2-pyrazinyl
NH	propyl	OCOOEt	6-methyl-2-pyrazinyl
NH	propyl	OCOOEt	6-methoxy-2-pyrazinyl
NH	propyl	OCOOEt	6-chloro-2-pyrazinyl
I	FFV-		5 CAROLO M DJ LUMINJI

X	R <sup>1</sup>	R <sup>2</sup>	77
			Y
NH	n-butyl	OH	2-pyridyl
	n-butyl	OH	8-pyridyl
NH	n-butyl	OH	4-pyridyl
NH	n-butyl	OH	2-methyl-3-pyridyl
NH	n-butyl	OH	4-methyl-3-pyridyl
NH	n-butyl	ОН	5-methyl-3-pyridyl
NH	n-butyl	ОН	6-methyl-3-pyridyl
NH	n-butyl	ОН	2-ethyl-3-pyridyl
НИ	n-butyl	OH	4-ethyl-3-pyridyl
NH	n-butyl	OH	5-ethyl-3-pyridyl
NH	n-butyl	OH	6-ethyl-3-pyridyl
NH	n-butyl	OH	2-methoxy-3-pyridyl
NH	n-butyl	OH	4-methoxy-3-pyridyl
NH	n-butyl	ОН	6-methoxy-3-pyridyl
NH	n-butyl	OH	6-methoxy-3-pyridyl
NH	n-butyl	OH	2-ethoxy-3-pyridyl
NH	n-butyl	OH	4-ethoxy-3-pyridyl
НИ	n-butyl	OH	5-ethoxy-3-pyridyl
NH	n-butyl	OH	6-ethoxy-3-pyridyl
NH	n-butyl	OH	2-chloro-3-pyridyl
NH	n-hutyl	OH	4-chloro-3-pyridyl
NH	n-butyl	OH	5-chloro-3-pyridyl
NH	n-butyl	OH	6-chloro-3-pyridyl
NH	n-butyl	OH	2-fluoro-3-pyridyl
NH	n-butyl	OH	4-fluoro-3-pyridyl
NH	n-butyl	OH	5-fluoro-3-pyridyl
NH	n-butyl	OH	6-fluoro-3-pyridyl
NH	n-butyl	OH	2-dimethylamino-3-pyridyl
NH	n-butyl	ОН	4-dimethylamino-3-pyridyl
NH	n-butyl	OH	5-dimethylamino-3-pyridyl
NH	n-butyl	ОН	6-dimethylamino-3-pyridyl
NH	n-butyl	ОН	2-(1-pyrrolidinyl)-3-pyridyl
NH	n-butyl	ОН	3-(1-pyrrolidinyl)-3-pyridyl
NH	n-butyl	OH	5-(1-pyrrolidinyl)-3-pyridyl
NH	n-butyl	ОН	6-(1-pyrrolidinyl)-3-pyridyl
NH	n-butyl	OH	2-piperidino-3-pyridyl
NH	n-butyl	OH	4-piperidino-3-pyridyl
NH	n·butyl	OH	5-piperidino-3-pyridyl
NH	n-butyl	OH	6-piperidino-3-pyridyl
NH	n-butyl	OH	2-morpholino-3-pyridyl
NH	n-butyl	ОН	4-morpholino-3-pyridyl
NH	n-butyl	ОН	5-morpholino-3-pyridyl
NH	n-butyl	ОН	6-morpholino-3-pyridyl
NH	n-butyl	OH	2-hydroxy-3-pyridyl
NH	n-butyl	OH	4-hydroxy-3-pyridyl
NH	n-butyl	OH	5-hydroxy-3-pyridyl
NH	n-butyl	OH	6-hydroxy-3-pyridyl
:	** ~ *****	VII.	1 0-11/410xy-0-pyrrayr

r	· · · · · · · · · · · · · · · · · · ·		
NH	n-butyl	OH	2-mercapto-3-pyridyl
NH	n-butyl	OH	4-mercapto-3-pyridyl
NH	n-butyl	OH	5-mercapto-3-pyridyl
NH	n-butyl	OH	6-mercapto-3-pyridyl
NH	n-butyl	OH	2-methylthio-3-pyridyl
NH	n-butyl	ОН	4-methylthio-3-pyridyl
NH	n-butyl	OH	5-methylthio-3-pyridyl
NH	n-butyl	OH	6-methylthio-3-pyridyl
NH	n-butyl	OH	2,6-dimethyl-3-pyridyl
NH	n-butyl	OH	5,6-dimethyl-3-pyridyl
NH	n-butyl	OH	2,6-diethyl-3-pyridyl
NH	n-butyl	OH	5,6-diethyl-3-pyridyl
NH	n-butyl	ОН	2,6-dimethoxy-3-pyridyl
NH	n-butyl	OH	5,6-dimethoxy-3-pyridyl
NH	n-butyl	OH	2,6-diethoxy-3-pyridyl
NH	n-butyl	OH	5,6-diethoxy-3-pyridyl
NH	n-butyl	ОН	2,6-dichloro-3-pyridyl
NH	n-butyl	OH	5,6-dichloro-3-pyridyl
NH	n-butyl	ОН	5-chloro-6-methoxy-3-pyridyl
NH	n-butyl	OH	5-chloro-6-ethoxy-3-pyridyl
NH	n-butyl	ОН	2-chloro-6-methyl-3-pyridyl
NH	n-butyl	OH	6-chloro-2-methyl-3-pyridyl
NH	n-butyl	ОН	2-methyl-4-pyridyl
NH	n-butyl	ОН	2-ethyl-4-pyridyl
HN	n-butyl	ОН	2-methoxy-4-pyridyl
NH	n-butyl	OH	2-ethoxy-4-pyridyl
NH	n-butyl	ОН	2-chloro-4-pyridyl
NH	n-butyl	OH	2-dimethylamino-4-pyridyl
NH	n-butyl	OH	2-(1-pyrrolidinyl)-4-pyridyl
NH	n-butyl	OH	2-piperidino-4-pyridyl
NH	n-butyl	OH	2-morpholino-4-pyridyl
NH	n-butyl	OH	2-methylthio-4-pyridyl
NH	n-butyl.	ОН	2-pyrazinyl
NH	n-butyl	OH	5-methyl-2-pyrazinyl
NH	n-butyl	ОН	5-ethyl-2-pyrazinyl
NH	n-butyl	OH	5-methoxy-2-pyrazinyl
NH	n-butyl	ОН	5-ethoxy-2-pyrazinyl
NH	n-butyl	ОН	5-chloro-2-pyrazinyl
NH	n-butyl	OH	6-methyl-2-pyrazinyl
NH	n-butyl	OH	6-methoxy-2-pyrazinyl
NH	n-butyl	OH	6-chloro-2-pyrazinyl
		V.4	o-conoro-z-pyrazinyi

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X	R <sup>1</sup>	$\mathbb{R}^2$	Y
NH	n-butyl	OCOOMe	2-pyridyl
NH	n-butyl	OCOOMe	3-pyridyl
NH	n-butyl	OCOOMe	4-pyridyl
NH	n-butyl	OCOOMe	2-methyl-3-pyridyl
NH	n-butyl	OCOOMe	4-methyl-3-pyridyl
NH	n-butyl	OCOOMe	5-methyl-3-pyridyl
NH	n-butyl	OCOOMe	6-methyl-3-pyridyl
NH	n-butyl	OCOOMe	2-ethyl-3-pyridyl
NH	n-butyl	OCOOMe	4-ethyl-3-pyridyl
NH	n-butyl	OCOOMe	5-ethyl-3-pyridyl
NH	n-butyl	OCOOMe	6-ethyl-3-pyridyl
NH	n•butyl	OCOOMe	2-methoxy-3-pyridyl
NH	n-butyl	OCOOMe	4-methoxy-3-pyridyl
HN	n-butyl	OCOOMe	5-methoxy-3-pyridyl
NII	n-butyl	ОСООМе	6-methoxy-3-pyridyl
NH	n-butyl	OCOOMe	2-ethoxy-3-pyridyl
NH	n-butyl	OCOOMe	4-ethoxy-3-pyridyl
NH	n-butyl	OCOOMe	5-ethoxy-3-pyridyl
ИH	n-butyl	OCOOMe	6-ethoxy-3-pyridyl
NH	n-butyl	OCOOMe	2-chloro-3-pyridyl
NH	n-butyl	OCOOMe	4-chloro-3-pyridyl
NH	n-butyl	OCOOMe	5-chloro-3-pyridyl
ИН	n-butyl	OCOOMe	6-chloro-3-pyridyl
NH	n-butyl	OCOOMe	2-fluoro-3-pyridyl
NH	n-butyl	OCOOMe	4-fluoro-3-pyridyl
NH	n-butyl	OCOOMe	5-fluoro-3-pyridyl
NH	n-butyl	OCOOMe	6-fluoro-3-pyridyl
NH	n-butyl	ОСООМе	2-dimethylamino-3-pyridyl
NH	n-butyl	OCOOMe	4-dimethylamino-3-pyridyl
NH	n-butyl	ОСООМе	5-dimethylamino-3-pyridyl
NH	n-butyl	ОСООМе	6-dimethylamino-3-pyridyl
NH	n-butyl	OCOOMe	2-(1-pyrrolidinyl)-3-pyridyl
NH	n-butyl	OCOOMe	3-(1-pyrrolidinyl)-3-pyridyl
NH	n-butyl	OCOOMe	5-(1-pyrrolidinyl)-3-pyridyl
ИН	n-butyl	OCOOMe	6-(1-pyrrolidinyl)-3-pyridyl
NH	n-butyl	OCOOMe	2-piperidino-3-pyridyl
NH	n-butyl	OCOOMe	4-piperidino-3-pyridyl
NH	n-butyl	OCOOMe	5-piperidino-3-pyridyl
NH	n-butyl	OCOOMe	6-piperidino-3-pyridyl
NH	n-butyl	OCOOMe	2-morpholino-3-pyridyl
NH	n-butyl	OCOOMe	4-morpholino-3-pyridyl
NH	n-butyl	OCOOMe	5-morpholino-3-pyridyl
NH	n-butyl	OCOOMe	6-morpholino-3-pyridyl
NH	n-butyl	OCOOMe	2-hydroxy-3-pyridyl
NH	n-butyl	OCOOMe	4-hydroxy-3-pyridyl
NH	n-butyl	OCOOMe	5-hydroxy-3-pyridyl
NH	n-butyl	OCOOMe	6-hydroxy-3-pyridyl

NH	n-butyl	OCOOMe	2-mercapto-3-pyridyl
NH	n-butyl	OCOOMe	4-mercapto-3-pyridyl
NH	n-butyl	OCOOMe	5-mercapto-3-pyridyl
NH	n-butyl	OCOOMe	6-mercapto-3-pyridyl
NH	n-butyl	OCOOMe	2-methylthio-3-pyridyl
NH	n-butyl	OCOOMe	4-methylthio-3-pyridyl
NH	n-butyl	OCOOMe	5-methylthio-3-pyridyl
NH	n-butyl	OCOOMe	6-methylthio-3-pyridyl
NH	n-butyl	OCOOMe	2,6-dimethyl-3-pyridyl
NH	n-butyl	OCOOMe	5,6-dimethyl-3-pyridyl
NH	n-butyl	OCOOMe	2,6-diethyl-3-pyridyl
NH	n-butyl	OCOOMe	5,6-diethyl-3-pyridyl
NH	n-butyl	OCOOMe	2,6-dimethoxy-3-pyridyl
NH	n-butyl	OCOOMe	5,6-dimethoxy-3-pyridyl
NH	n-butyl	OCOOMe	2,6-diethoxy-3-pyridyl
NH	n-butyl	OCOOMe	5,6-diethoxy-3-pyridyl
NH	n-butyl	OCOOMe	2,6-dichloro-3-pyridyl
NH	n-butyl	OCOOMe	5,6-dichloro-3-pyridyl
NH	n-butyl	OCOOMe	5-chloro-6-methoxy-3-pyridyl
NH	n-butyl	OCOOMe	5-chloro-6-ethoxy-3-pyridyl
NH	n-butyl	OCOOMe	2-chloro-6-methyl-3-pyridyl
NH	n-butyl	OCOOMe	6-chloro-2-methyl-3-pyridyl
NH	n-butyl	OCOOMe	2-methyl-4-pyridyl
NH	n-butyl	OCOOMe	2-ethyl-4-pyridyl
NH	n-butyl	OCOOMe	2-methoxy-4-pyridyl
НИ	n-butyl	OCOOMe	2-ethoxy-4-pyridyl
NH	n-butyl	OCOOMe	2-chloro-4-pyridyl
NH	n-butyl	OCOOMe	2-dimethylamino-4-pyridyl
NH	n-butyl	ОСООМе	2-(1-pyrrolidinyl)-4-pyridyl
NH	n-butyl	OCOOMe	2-piperidino-4-pyridyl
NH	n-butyl	OCOOMe	2-morpholino-4-pyridyl
NH	n-butyl	OCOOMe	2-methylthio-4-pyridyl
NH	n-butyl	OCOOMe	2-pyrazinyl
NH	n-butyl	OCOOMe	5-methyl-2-pyrazinyl
NH	n-butyl	OCOOMe	5-ethyl-2-pyrazinyl
NH	n-butyl	OCOOMe	5-methoxy-2-pyrazinyl
NH	n-butyl	OCOOMe	5-ethoxy-2-pyrazinyl
NH	n-butyl	OCOOMe	5-chloro-2-pyrazinyl
NH	n-butyl	OCOOMe	6-methyl-2-pyrazinyl
NH	n-butyl	OCOOMe	6-methoxy-2-pyrazinyl
NH	n-butyl	OCOOMe	6-chloro-2-pyrazinyl

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X	R <sup>1</sup>	R <sup>2</sup>	Y
NH	n-butyl	OCOOEt	
NH	n-butyl	OCOOEt	2-pyridyl
NH	n-butyl	OCOOEt	3-pyridyl
NH	n-butyl	OCOOEt	4-pyridyl 2-methyl-3-pyridyl
NH	n-butyl	OCOOEt	4-methyl-3-pyridyl
NH	n-butyl	OCOOEt	
NH	n-butyl	OCOOBt	5-mcthyl-3-pyridyl 6-methyl-3-pyridyl
NH	n-butyl	OCOOEt	2-ethyl-3-pyridyl
NH	n-hutyl	OCOOEt	4-ethyl-3-pyridyl
NH	n-butyl	OCOOEt	5-ethyl-3-pyridyl
NH	n-butyl	OCOOEt	
NH	n-butyl	OCOOEt	6-ethyl-3-pyridyl 2-methoxy-3-pyridyl
NH	n-butyl	OCOOEt	4-methoxy-3-pyridyl
NH	n-butyl	OCOOEt	
NH	n-butyl	OCOOEt	5-methoxy-3-pyridyl 6-methoxy-3-pyridyl
NH	n-butyl	OCOOEt	2-ethoxy-3-pyridyl
NH	n-butyl	OCOOEt	4-ethoxy-3-pyridyl
NH	n-butyl	OCOOEt	5-ethoxy-3-pyridyl
NH	n-butyl	OCOOEt	6-ethoxy-3-pyridyl
NH	n-butyl	OCOOEt	2-chloro-3-pyridyl
NH	n-butyl	OCOOEt	4-chloro-3-pyridyl
NH	n-butyl	OCOOEt	5-chloro-3-pyridyl
NH	n-butyl	OCOOEt	6-chloro-3-pyridyl
NH	n-butyl	OCOOEt	2-fluoro-3-pyridyl
NH	n-butyl	OCOOEt	4-fluoro-3-pyridyl
NH	n-butyl	OCOOEt	5-fluoro-3-pyridyl
NH	n-butyl	OCOOEt	6-fluoro-3-pyridyl
NH	n-butyl	OCOOEt	2-dimethylamino-3-pyridyl
NH	n-butyl	OCOOEt	4-dimethylamino-3-pyridyl
NH	n-butyl	OCOOEt	5-dimethylamino-3-pyridyl
NH	n-butyl	OCOOEt	6-dimethylamino-3-pyridyl
NH	n-butyl	OCOOEt	2-(1-pyrrolidinyl)-3-pyridyl
NH	n-butyl	OCOOEt	3-(1-pyrrolidinyl)-3-pyridyl
NH	n-butyl	OCOOEt	5-(1-pyrrolidinyl)-3-pyridyl
NH	n-butyl	OCOOEt	6-(1-pyrrolidinyl)-3-pyridyl
NH	n-butyl	OCOOEt	2-piperidino-3-pyridyl
NH	n-butyl	OCOOEt	4-piperidino-3-pyridyl
NH	n-butyl	OCOOEt	5-piperidino-3-pyridyl
NH	n-butyl	OCOOEt	6-piperidino-3-pyridyl
NH	n-butyl	OCOOEt	2-morpholino-3-pyridyl
NH	n-butyl	OCOOEt	4-morpholino-3-pyridyl
NH	n-butyl	OCOOEt	5-morpholino-3-pyridyl
NH	n-butyl	OCOOEt	6-morpholino-3-pyridyl
NH	n-butyl	OCOOEt	2-hydroxy-3-pyridyl
NH	n-butyl	OCOOEt	4-hydroxy-3-pyridyl
NH	n-butyl	OCOOEt	5-hydroxy-3-pyridyl
NH	n-butyl	OCOOEt	6-hydroxy-3-pyridyl

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NH	n-butyl	OCOOEt	2-mercapto-3-pyridyl
NH	n-butyl	OCOOEt	4-mercapto-3-pyridyl
NH	n-butyl	OCOOEt	5-mercapto-3-pyridyl
NH	n-butyl	OCOOEt	6-mercapto-3-pyridyl
NH	n-butyl	OCOOEt	2-methylthio-3-pyridyl
NH	n-butyl	OCOOEt	4-methylthio-3-pyridyl
NH	n-butyl	OCOOEt	5-methylthio-3-pyridyl
NH	n-butyl	OCOOEt	6-methylthio-3-pyridyl
NH	n-butyl	OCOOEt	2,6-dimethyl-3-pyridyl
NH	n-butyl	OCOOEt	5,6-dimethyl-3-pyridyl
NH	n-butyl	OCOOEt	2,6-diethyl-3-pyridyl
NH	n-butyl	OCOOEt	5,6-diethyl-3-pyridyl
NH	n-butyl	OCOOEt	2,6-dimethoxy-3-pyridyl
NH	n-butyl	OCOOEt	5,6-dimethoxy-3-pyridyl
NH	n-butyl	OCOOEt	2,6-diethoxy-3-pyridyl
NH	n-butyl	OCOOEt	5,6-diethoxy-3-pyridyl
NH	n-butyl	OCOOEt	2,6-dichloro-3-pyridyl
NH	n-butyl	OCOOEt	5,6-dichloro-3-pyridyl
NH	n-butyl	OCOOEt	5-chloro-6-methoxy-3-pyridyl
NH	n-butyl	OCOOEt	5-chloro-6-ethoxy-3-pyridyl
NH	n-butyl	OCOOEt	2-chloro-6-methyl-3-pyridyl
NH	n-butyl	OCOOEt	6-chloro-2-methyl-3-pyridyl
NH	n-butyl	OCOOEt	2-methyl-4-pyridyl
NH	n-butyl	OCOOEt	2-ethyl-4-pyridyl
NH	n-butyl	OCOOEt	2-methoxy-4-pyridyl
NH	n-butyl	OCOOEt	2-ethoxy-4-pyridyl
NH	n-butyl	OCOOEt	2-chloro-4-pyridyl
NH	n-butyl	OCOOEt	2-dimethylamino-4-pyridyl
NH	n-butyl	OCOOEt	2-(1-pyrrolidinyl)-4-pyridyl
NH	n-butyl	OCOOEt	2-piperidino-4-pyridyl
NH	n-butyl	OCOOEt	2-morpholino-4-pyridyl
NH	n-butyl	OCOOEt	2-methylthio-4-pyridyl
NH	n-butyl	OCOOEt	2-pyrazinyl
NH	n-butyl	OCOOEt	5-methyl-2-pyrazinyl
NH	n-butyl	OCOOEt	5-ethyl-2-pyrazinyl
NH	n-butyl	OCOOEt	5-methoxy-2-pyrazinyl
NH	n-butyl	OCOOEt	5-ethoxy-2-pyrazinyl
NH	n-butyl	OCOOEt	5-chloro-2-pyrazinyl
NH	n-butyl	OCOOEt	6-methyl-2-pyrazinyl
NH	n-butyl	OCOOEt	6-methoxy-2-pyrazinyl
NH	n-butyl	OCOOEt	6-chloro-2-pyrazinyl
		2220111	O GHIOLO-D-DYLAZIHYI

X	R <sup>1</sup>	R <sup>2</sup>	Y
NH			
NH	n-pentyl	OH	2-pyridyl
NH	n-pentyl	OH	3-pyridyl
	n-pentyl	OH	4-pyridyl
NH	n-pentyl	OH	2-methyl-3-pyridyl
NH	n-pentyl	OH	4-methyl-3-pyridyl
NH	n-pentyl	OH	5-methyl-3-pyridyl
NH	n-pentyl	ОН	6-methyl-3-pyridyl
NH	n-pentyl	ОН	2-ethyl-3-pyridyl
NH	n-pentyl	ОН	4-ethyl-3-pyridyl
NH	n-pentyl	ОН	5-ethyl-3-pyridyl
NH	n-pentyl	ОН	6-ethyl-3-pyridyl
NH	n-pentyl	OH	2-methoxy-3-pyridyl
NH	n-pentyl	OH	4-methoxy-3-pyridyl
NH	n-pentyl	OH	5-methoxy-3-pyridyl
HN	n-pentyl	OH	6-methoxy-3-pyridyl
NH	n-pentyl	ОН	2-ethoxy-3-pyridyl
NH	n-pentyl	OH	4-ethoxy-3-pyridyl
NH	n-pentyl	OH	5-ethoxy-3-pyridyl
NH	n-pentyl	OH	6-ethoxy-3-pyridyl
NH	n-pentyl	OH	2-chloro-3-pyridyl
NH	n-pentyl	ОН	4-chloro-3-pyridyl
NH	n-pentyl	OH	5-chloro-3-pyridyl
NH	n-pentyl	OH	6-chloro-3-pyridyl
NH	n-pentyl	ОН	2-fluoro-3-pyridyl
ЙĤ	n-pentyl	OH	4-fluoro-3-pyridyl
NH	n-pentyl	OH	5-fluoro-3-pyridyl
NH	n-pentyl	OH	6-fluoro-3-pyridyl
NH	n-pentyl	OH	2-dimethylamino-3-pyridyl
NH	n-pentyl	OH	4-dimethylamino-3-pyridyl
NH	n-pentyl	OH	5-dimethylamino-3-pyridyl
NH	n-pentyl	OH	6-dimethylamino-3-pyridyl
NH	n-pentyl	OH	2-(1-pyrrolidinyl)-3-pyridyl
NH	n-pentyl	ОН	3-(1-pyrrolidinyl)-3-pyridyl
NH	n-pentyl	ОН	5-(1-pyrrolidinyl)-3-pyridyl
NH	n-pentyl	OH	6-(1-pyrrolidinyl)-3-pyridyl
NH	n-pentyl	OH	2-piperidino-3-pyridyl
NH	n-pentyl	ОН	4-piperidino-3-pyridyl
NH	n-pentyl	ОН	5-piperidino-3-pyridyl
NH	n-pentyl	OH	6-piperidino-3-pyridyl
NH	n-pentyl	OH	2-morpholino-3-pyridyl
NH	n-pentyl	OH	
NH	n-pentyl	OH	4-morpholino-3-pyridyl
NH	n-pentyl		5-morpholino-3-pyridyl
NH		OH	6-morpholino-3-pyridyl
	n-pentyl	OH	2-hydroxy-3-pyridyl
NH	n-pentyl	OH	4-hydroxy-3-pyridyl
NH	n-pentyl	OH	5-hydroxy-3-pyridyl
NH	n-pentyl	OH	6-hydroxy-3-pyridyl

NH n-pentyl OH 2-mercapto-3-pyridy NH n-pentyl OH 4-mercapto-3-pyridy NH n-pentyl OH 5-mercapto-3-pyridy NH n-pentyl OH 6-mercapto-3-pyridy NH n-pentyl OH 2-methylthio-3-pyridy NH n-pentyl OH 4-methylthio-3-pyridy NH n-pentyl OH 5-methylthio-3-pyridy NH n-pentyl OH 5-methylthio-3-pyridy NH n-pentyl OH 6-methylthio-3-pyridy NH n-pentyl OH 6-methylthio-3-pyridy NH n-pentyl OH 2,6-dimethyl-3-pyridy	l 1
NH n-pentyl OH 5-mercapto-3-pyridy NH n-pentyl OH 6-mercapto-3-pyridy NH n-pentyl OH 2-methylthio-3-pyridy NH n-pentyl OH 4-methylthio-3-pyridy NH n-pentyl OH 5-methylthio-3-pyridy NH n-pentyl OH 6-methylthio-3-pyridy	i
NH n-pentyl OH 6-mercapto-3-pyridy NH n-pentyl OH 2-methylthio-3-pyridy NH n-pentyl OH 4-methylthio-3-pyridy NH n-pentyl OH 5-methylthio-3-pyridy NH n-pentyl OH 6-methylthio-3-pyridy	
NH n-pentyl OH 2-methylthio-3-pyridy NH n-pentyl OH 4-methylthio-3-pyridy NH n-pentyl OH 5-methylthio-3-pyridy NH n-pentyl OH 6-methylthio-3-pyridy	1
NH n-pentyl OH 4-methylthio-3-pyridy NH n-pentyl OH 5-methylthio-3-pyridy NH n-pentyl OH 6-methylthio-3-pyridy	
NH n-pentyl OH 5-methylthio-3-pyridy NH n-pentyl OH 6-methylthio-3-pyridy	
NH n-pentyl OH 6-methylthio-3-pyridy	
NH n-pentyl OH 2,6-dimethyl-3-pyridy	
NH n-pentyl OH 5,6-dimethyl-3-pyridy	7l
NH n-pentyl OH 2,6-diethyl-3-pyridyl	
NH n-pentyl OH 5,6-diethyl-3-pyridyl	
NH n-pentyl OH 2,6-dimethoxy-3-pyrid	yl
NH n-pentyl OH 5,6-dimethoxy-3-pyrid	yl
NH n-pentyl OH 2,6-diethoxy-3-pyridy	
NH n-pentyl OH 5,6-diethoxy-3-pyridy	l
NH n-pentyl OH 2,6-dichloro-3-pyridy	1
NH n-pentyl OH 5,6-dichloro-3-pyridy	l
NH n-pentyl OH 5-chloro-6-methoxy-3-pyric	dy1
NH n-pentyl OH 5-chloro-6-ethoxy-3-pyri	dyl
NH n-pentyl OH 2-chloro-6-methyl-3-pyri	
NH n-pentyl OH 6-chloro-2-methyl-3-pyri	
NH n-pentyl OH 2-methyl-4-pyridyl	
NH n-pentyl OH 2-ethyl-4-pyridyl	
NH n-pentyl OH 2-methoxy-4-pyridyl	
NH n-pentyl OH 2-ethoxy-4-pyridyl	
NH n-pentyl OH 2-chloro-4-pyridyl	
NH n-pentyl OH 2-dimethylamino-4-pyric	lyl
NH n-pentyl OH 2-(1-pyrrolidinyl)-4-pyric	
NH n-pentyl OH 2-piperidino-4-pyridyl	
NH n-pentyl OH 2-morpholino-4-pyridy	
NH n-pentyl OH 2-methylthio-4-pyridyl	1
NH n-pentyl OH 2-pyrazinyl	-
NH n-pentyl OH 5-methyl-2-pyrazinyl	
NH n-pentyl OH 5-ethyl-2-pyrazinyl	
NH n-pentyl OH 5-methoxy-2-pyrazinyl	
NH n-pentyl OH 5-ethoxy-2-pyrazinyl	$\dashv$
NH n-pentyl OH 5-chloro-2-pyrazinyl	
NH n-pentyl OH 6-methyl-2-pyrazinyl	
NH n-pentyl OH 6-methoxy-2-pyrazinyl	
NH n-pentyl OH 6-chloro-2-pyrazinyl	-

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X	R <sup>1</sup>	R <sup>2</sup>	Y
NH	n-pentyl	OCOOMe	2-pyridyl
NH	n-pentyl	OCOOMe	3-pyridyl
NH	n-pentyl	OCOOMe	4-pyridyl
NH	n-pentyl	OCOOMe	2-methyl-3-pyridyl
NH	n-pentyl	OCOOMe	4-methyl-3-pyridyl
NH	n-pentyl	OCOOMe	5-methyl-3-pyridyl
NH	n-pentyl	OCOOMe	6-methyl-3-pyridyl
NH	n-pentyl	OCOOMe	
NH	n-pentyl	OCOOMe	2-ethyl-3-pyridyl
NH	n-pentyl	OCOOMe	4-ethyl-3-pyridyl
NH	n-pentyl	OCOOMe	5-ethyl-3-pyridyl
NH	<del></del>	OCOOMe OCOOMe	6-ethyl-3-pyridyl
NH	n-pentyl		2-methoxy-3-pyridyl
NH	n-pentyl	OCOOMe	4-methoxy-3-pyridyl
NH	n-pentyl	OCOOMe	5-methoxy-3-pyridyl
NH	n-pentyl	OCOOMe OCOOMe	6-methoxy-3-pyridyl
	n-pentyl		2-ethoxy-3-pyridyl
NH NH	n-pentyl	OCOOMe OCOOMe	4-ethoxy-3-pyridyl
NH	n-pentyl		5-ethoxy-3-pyridyl
NH	n-pentyl	OCOOMe	6-ethoxy-3-pyridyl
NH	n-pentyl	OCOOMe OCOOMe	2-chloro-3-pyridyl
NH	n-pentyl		4-chloro-3-pyridyl
NH	n-pentyl	OCOOMe	5-chloro-3-pyridyl
NH	n-pentyl	OCOOMe	6-chloro-3-pyridyl
NH	n-pentyl	OCOOMe	2-fluoro-3-pyridyl
NH	n-pentyl	OCOOMe	4-fluoro-3-pyridyl
NH	n-pentyl	OCOOMe	5-fluoro-3-pyridyl
	n-pentyl	OCOOMe	6-fluoro-3-pyridyl
NH NH	n-pentyl	OCOOMe	2-dimethylamino-3-pyridyl
	n-pentyl	OCOOMe	4-dimethylamino-3-pyridyl
NH	n-pentyl	OCOOMe	5-dimethylamino-3-pyridyl
NH	n-pentyl	OCOOMe	6-dimethylamino-3-pyridyl
NH	n-pentyl	OCOOMe	2-(1-pyrrolidinyl)-3-pyridyl
NH	n-pentyl	OCOOMe	3-(1-pyrrolidinyl)-3-pyridyl
NH	n-pentyl	OCOOMe	5-(1-pyrrolidinyl)-3-pyridyl
NH	n-pentyl	OCOOMe	6-(1-pyrrolidinyl)-3-pyridyl
NH	n-pentyl	OCOOMe	2-piperidino-3-pyridyl
NH	n-pentyl	OCOOMe	4-piperidino-3-pyridyl
NH	n-pentyl	OCOOMe	5-piperidino-3-pyridyl
NH	n-pentyl	OCOOMe	6-piperidino-3-pyridyl
NH	n-pentyl	OCOOMe	2-morpholino-3-pyridyl
NH	n-pentyl	OCOOMe	4-morpholino-3-pyridyl
NH	n-pentyl	OCOOMe	5-morpholino-3-pyridyl
NH	n-pentyl	OCOOMe	6-morpholino-3-pyridyl
NH	n-pentyl	OCOOMe	2-hydroxy-3-pyridyl
NH	n-pentyl	OCOOMe	4-hydroxy-3-pyridyl
NH	n-pentyl	OCOOMe	5-hydroxy-3-pyridyl
NH	n-pentyl	OCOOMe	6-hydroxy-3-pyridyl

NH	n-pentyl	OCOOMe	2-mercapto-3-pyridyl
NH	n-pentyl	OCOOMe	4-mercapto-3-pyridyl
NH	n-pentyl	OCOOMe	5-mercapto-3-pyridyl
NH	n-pentyl	OCOOMe	6-mercapto-3-pyridyl
NH	n-pentyl	OCOOMe	2-methylthio-3-pyridyl
NH	n-pentyl	OCOOMe	4-methylthio-3-pyridyl
NH	n-pentyl	OCOOMe	5-methylthio-3-pyridyl
NH	n-pentyl	OCOOMe	6-methylthio-3-pyridyl
NH	n-pentyl	OCOOMe	2,6-dimethyl-3-pyridyl
NH	n-pentyl	OCOOMe	5,6-dimethyl-3-pyridyl
NH	n-pentyl	OCOOMe	2,6-diethyl-3-pyridyl
NH	n-pentyl	OCOOMe	5,6-diethyl-3-pyridyl
NH	n-pentyl	OCOOMe	2,6-dimethoxy-3-pyridyl
NH	n-pentyl	OCOOMe	5,6-dimethoxy-3-pyridyl
NH	n-pentyl	OCOOMe	2,6-diethoxy-3-pyridyl
NH	n-pentyl	OCOOMe	5,6-diethoxy-3-pyridyl
NH	n-pentyl	OCOOMe	2,6-dichloro-3-pyridyl
NH	n-pentyl	OCOOMe	5,6-dichloro-3-pyridyl
NH	n-pentyl	OCOOMe	5-chlore-6-methoxy-3-pyridyl
NH	n-pentyl	OCOOMe	5-chloro-6-ethoxy-3-pyridyl
NH	n-pentyl	OCOOMe	2-chloro-6-methyl-3-pyridyl
NH	n-pentyl	OCOOMe	6-chloro-2-methyl-3-pyridyl
NH	n-pentyl	OCOOMe	2-methyl-4-pyridyl
NH	n-pentyl	OCOOMe	2-ethyl-4-pyridyl
NH	n-pentyl	OCOOMe	2-methoxy-4-pyridyl
NH	n-pentyl	OCOOMe	2-ethoxy-4-pyridyl
NH	n-pentyl	OCOOMe	2-chloro-4-pyridyl
NH	n-pentyl	OCOOMe	2-dimethylamino-4-pyridyl
NH	n-pentyl	OCOOMe	2-(1-pyrrolidinyl)-4-pyridyl
NH	n-pentyl	OCOOMe	2-piperidino-4-pyridyl
NH	n-pentyl	OCOOMe	2-morpholino-4-pyridyl
NH	n-pentyl	OCOOMe	2-methylthio-4-pyridyl
NH	n-pentyl	OCOOMe	2-pyrazinyl
NH	n-pentyl	OCOOMe	5-methyl-2-pyrazinyl
NH	n-pentyl	OCOOMe	5-ethyl-2-pyrazinyl
NH	n-pentyl	OCOOMe	5-methoxy-2-pyrazinyl
NH	n-pentyl	OCOOMe	5-ethoxy-2-pyrazinyl
NH	n-pentyl	OCOOMe	5-chloro-2-pyrazinyl
NH	n-pentyl	OCOOMe	6-methyl-2-pyrazinyl
NH	n-pentyl	OCOOMe	6-methoxy-2-pyrazinyl
NH	n-pentyl	OCOOMe	6-chloro-2-pyrazinyl
	** home	OOOOMO	o-chioro-z-pyrazmyi

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X	R <sup>1</sup>	$\mathbb{R}^2$	Y
NH	n-pentyl	OCOOEt	2-pyridyl
НИ	n-pentyl	OCOOEt	3-pyridyl
NH	n-pentyl	OCOOEt	4-pyridyl
NH	n-pentyl	OCOOEt	2-methyl-3-pyridyl
NH	n-pentyl	OCOOEt	4-methyl-3-pyridyl
NH	n-pentyl	OCOOEt	5-methyl-3-pyridyl
NH	n-pentyl	OCOOEt	6-methyl-3-pyridyl
NH	n-pentyl	OCOOEt	2-ethyl-3-pyridyl
NH	n-pentyl	OCOOEt	4-ethyl-3-pyridyl
NH	n-pentyl	OCOOEt	5-ethyl-3-pyridyl
NH	n-pentyl	OCOOEt	6-ethyl-3-pyridyl
NH	n-pentyl	OCOOEt	2-methoxy-3-pyridyl
NH	n-pentyl	OCOOEt	4-methoxy-3-pyridyl
NH	n-pentyl	OCOOEt	5-methoxy-3-pyridyl
NH	n-pentyl	OCOOEt	6-methoxy-3-pyridyl
NH	n-pentyl	OCOOEt	2-ethoxy-3-pyridyl
NH	n-pentyl	OCOOEt	4-ethoxy-3-pyridyl
NH	n-pentyl	OCOOEt	5-ethoxy-3-pyridyl
NH	n-pentyl	OCOOEt	6-ethoxy-3-pyridyl
NH	n-pentyl	OCOOEt	2-chloro-3-pyridyl
NH	n-pentyl	OCOOEt	4-chloro-3-pyridyl
HN	n-pentyl	OCOOEt	5-chloro-3-pyridyl
NH	n-pentyl	OCOOEt	6-chloro-3-pyridyl
NH	n-pentyl	OCOOEt	2-fluoro-3-pyridyl
NH	n-pentyl	OCOOEt	4-fluoro-3-pyridyl
NH	n-pentyl	OCOOEt	5-fluoro-3-pyridyl
NH	n-pentyl	OCOOEt	6-fluoro-3-pyridyl
NH	n-pentyl	OCOOEt	2-dimethylamino-3-pyridyl
NH	n-pentyl	OCOOEt	4-dimethylamino-3-pyridyl
NH	n-pentyl	OCOOEt	5-dimethylamino-3-pyridyl
NH	n-pentyl	OCOOEt	6-dimethylamino-3-pyridyl
NH	n-pentyl	OCOOEt	2-(1-pyrrolidinyl)-3-pyridyl
NH	n-pentyl	OCOOEt	3-(1-pyrrolidinyl)-3-pyridyl
NH	n-pentyl	OCOOEt	5-(1-pyrrolidinyl)-3-pyridyl
NH	n-pentyl	OCOOEt	6-(1-pyrrolidinyl)-3-pyridyl
NH	n-pentyl	OCOOEt	2-piperidino-3-pyridyl
NH	n-pentyl	OCOOEt	4-piperidino-3-pyridyl
NH	n-pentyl	OCOOEt	5-piperidino-3-pyridyl
NH	n-pentyl	OCOOEt	6-piperidino-3-pyridyl
NH	n-pentyl	OCOOEt	2-morpholino-3-pyridyl
NH	n-pentyl	OCOOEt	4-morpholino-3-pyridyl
NH	n-pentyl	OCOOEt	5-morpholino-3-pyridyl
NH	n-pentyl	OCOOEt	6-morpholino-3-pyridyl
NH	n-pentyl	OCOOEt	2-hydroxy-3-pyridyl
NH	n-pentyl	OCOOEt	4-hydroxy-3-pyridyl
NH	n-pentyl	OCOOEt	5-hydroxy-3-pyridyl
NH	n-pentyl	OCOOEt	6-hydroxy-3-pyridyl
			10 KJ - 40/J +

NH	n-pentyl	OCOOEt	2-mercapto-3-pyridyl
NH	n-pentyl	OCOOEt	4-mercapto-3-pyridyl
NH	n-pentyl	OCOOEt	5-mercapto-3-pyridyl
NH	n-pentyl	OCOOEt	6-mercapto-3-pyridyl
NH	n-pentyl	OCOOEt	2-methylthio-3-pyridyl
NH	n-pentyl	OCOOEt	4-methylthio-3-pyridyl
NH	n-pentyl	OCOOEt	5-methylthio-3-pyridyl
NH	n-pentyl	OCOOEt	6-methylthio-3-pyridyl
NH	n-pentyl	OCOOEt	2,6-dimethyl-3-pyridyl
NH	n-pentyl	OCOOEt	5,6-dimethyl-3-pyridyl
NH	n-pentyl	OCOOEt	2,6-diethyl-3-pyridyl
NH	n-pentyl	OCOOEt	5,6-diethyl-3-pyridyl
NH	n-pentyl	OCOOEt	2,6-dimethoxy-3-pyridyl
NH	n-pentyl	OCOOEt	5,6-dimethoxy-3-pyridyl
NH	n-pentyl	OCOOEt	2,6-diethoxy-3-pyridyl
NH	n-pentyl	OCOOEt	5,6-diethoxy-3-pyridyl
NH	n-pentyl	OCOOEt	2,6-dichloro-3-pyridyl
NH	n-pentyl	OCOOEt	5,6-dichloro-3-pyridyl
NH	n-pentyl	OCOOEt	5-chloro-6-methoxy-3-pyridyl
NH	n-pentyl	OCOOEt	5-chloro-6-ethoxy-3-pyridyl
NH	n-pentyl	OCOOEt	2-chloro-6-methyl-3-pyridyl
NH	n-pentyl	OCOOEt	6-chloro-2-methyl-3-pyridyl
NH	n-pentyl	OCOOEt	2-methyl-4-pyridyl
NH	n-pentyl	OCOOEt	2-ethyl-4-pyridyl
NH	n-pentyl	OCOOEt	2-methoxy-4-pyridyl
NH	n-pentyl	OCOOEt	2-ethoxy-4-pyridyl
NH	n-pentyl	OCOOEt	2-chloro-4-pyridyl
NH	n-pentyl	OCOOEt	2-dimethylamino-4-pyridyl
NH	n-pentyl	OCOOEt	2-(1-pyrrolidinyl)-4-pyridyl
NH	n-pentyl	OCOOEt	2-piperidino-4-pyridyl
NH	n-pentyl	OCOOEt	2-morpholino-4-pyridyl
NH	n-pentyl	OCOOEt	2-methylthio-4-pyridyl
NH	n-pentyl	OCOOEt	2-pyrazinyl
NH	n-pentyl	OCOOEt	5-methyl-2-pyrazinyl
NH	n-pentyl	OCOOEt	5-ethyl-2-pyrazinyl
NH	n-pentyl	OCOOEt	5-methoxy-2-pyrazinyl
NH	n-pentyl	OCOOEt	5-ethoxy-2-pyrazinyl
NH	n-pentyl	OCOOEt	5-chloro-2-pyrazinyl
NH	n-pentyl	OCOOEt	6-methyl-2-pyrazinyl
3 VYY			
NH NH	n-pentyl n-pentyl	OCOOEt	6-methoxy-2-pyrazinyl

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	X	R <sup>1</sup>	R²	Y
	0	propyl	ОН	2-pyridyl
	0	propyl	OH	3-pyridyl
	0	propyl	OH	4-pyridyl
	0	propyl	OH	2-methyl-3-pyridyl
	0	propyl	OH	4-methyl-3-pyridyl
	0	propyl	OH	5-methyl-3-pyridyl
	0	propyl	OH	6-methyl-3-pyridyl
	0	propyl	OH	2-ethyl-3-pyridyl
	0	propyl	OH	4-ethyl-3-pyridyl
Į	0	propyl	OH	5-ethyl-3-pyridyl
	0	propyl	OH	6-ethyl-3-pyridyl
	0	propyl	OH	2-methoxy-3-pyridyl
	0	propyl	ОН	4-methoxy-3-pyridyl
	0	propyl	OH	5-methoxy-3-pyridyl
	0	propyl	OH	6-methoxy-3-pyridyl
ſ	0	propyl	OH	2-ethoxy-3-pyridyl
	0	propyl	OH	4-ethoxy-3-pyridyl
	0	propyl	OH	5-ethoxy-3-pyridyl
Ĺ	0	propyl	OH	6-ethoxy-3-pyridyl
Ĺ	0	propyl	OH	2-chloro-3-pyridyl
Ĺ	0	propyl	OH	4-chloro-3-pyridyl
Ĺ	0	propyl	ОН	5-chloro-3-pyridyl
Ĺ	0	propyl	ОН	6-chloro-3-pyridyl
	0	propyl	ОН	2-fluoro-3-pyridyl
Ĺ	0	propyl	ОН	4-fluoro-3-pyridyl
L	0	propyl	OH	5-fluoro-3-pyridyl
L	0	propyl	OH	6-fluoro-3-pyridyl
	0	propyl	ОН	2-dimethylamino-3-pyridyl
_	0	propyl	OH	4-dimethylamino-3-pyridyl
_	0	propyl	OH	5-dimethylamino-3-pyridyl
_	0	propyl	OH	6-dimethylamino-3-pyridyl
_	0	propyl	ОН	2-(1-pyrrolidinyl)-3-pyridyl
_	0	propyl	OH	3-(1-pyrrolidinyl)-3-pyridyl
	0	propyl	ОН	5-(1-pyrrolidinyl)-3-pyridyl
_	0	propyl	ОН	6-(1-pyrrolidinyl)-3-pyridyl
_	0	propyl	ОН	2-piperidino-3-pyridyl
_	0	propyl	OH	4-piperidino-3-pyridyl
_	0	propyl	ОН	5-piperidino-3-pyridyl
_	0	propyl	ОН	6-piperidino-3-pyridyl
_	0	propyl	ОН	2-morpholino-3-pyridyl
	0	propyl	ОН	4-morpholino-3-pyridyl
	0	propyl	ОН	5-morpholino-3-pyridyl
_	0	propyl	OH	6-morpholino-3-pyridyl
_	0	propyl	OH	2-hydroxy-3-pyridyl
_	0	propyl	OH	4-hydroxy-3-pyridyl
	0	propyl	OH	5-hydroxy-3-pyridyl
	0	propyl	OH	6-hydroxy-3-pyridyl
_		FFJ-		o-nydroxy-o-pyridyi

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O         propyl         OH         2-mercapto-8-pyridyl           O         propyl         OH         4-mercapto-3-pyridyl           O         propyl         OH         5-mercapto-3-pyridyl           O         propyl         OH         6-mercapto-3-pyridyl           O         propyl         OH         2-methylthio-3-pyridyl           O         propyl         OH         4-methylthio-3-pyridyl           O         propyl         OH         5-methylthio-3-pyridyl           O         propyl         OH         2,6-dimethyl-3-pyridyl           O         propyl         OH         2,6-dimethyl-3-pyridyl           O         propyl         OH         2,6-diethyl-3-pyridyl           O         propyl         OH         2,6-diethyl-3-pyridyl           O         propyl         OH         2,6-diethyl-3-pyridyl           O         propyl         OH         2,6-diethoxy-3-pyridyl           O         propyl         OH         2,6-diethoxy-3-pyridyl           O         propyl         OH         2,6-diethoxy-3-pyridyl           O         propyl         OH         2,6-diethoxy-3-pyridyl           O         propyl         OH         5,6-diethoxy-3-pyr				
O         propyl         OH         5-mercapto-3-pyridyl           O         propyl         OH         6-mercapto-3-pyridyl           O         propyl         OH         2-methylthio-3-pyridyl           O         propyl         OH         4-methylthio-3-pyridyl           O         propyl         OH         5-methylthio-3-pyridyl           O         propyl         OH         2,6-dimethyl-3-pyridyl           O         propyl         OH         2,6-dimethyl-3-pyridyl           O         propyl         OH         2,6-diethyl-3-pyridyl           O         propyl         OH         2,6-diethyl-3-pyridyl           O         propyl         OH         2,6-diethoxy-3-pyridyl           O         propyl         OH         5,6-diethoxy-3-pyridyl           O         propyl         OH         5,6-diethoxy-3			***************************************	2-mercapto-3-pyridyl
O         propyl         OH         6-mercapto-3-pyridyl           O         propyl         OH         2-methylthio-3-pyridyl           O         propyl         OH         4-methylthio-3-pyridyl           O         propyl         OH         5-methylthio-3-pyridyl           O         propyl         OH         6-methylthio-3-pyridyl           O         propyl         OH         2,6-diemthyl-3-pyridyl           O         propyl         OH         2,6-diethyl-3-pyridyl           O         propyl         OH         2,6-diethyl-3-pyridyl           O         propyl         OH         2,6-diethyl-3-pyridyl           O         propyl         OH         2,6-diethyl-3-pyridyl           O         propyl         OH         2,6-diethoxy-3-pyridyl           O         propyl         OH         5,6-diethoxy-3-pyridyl           O         propyl         OH         5,6-diethoxy-3			OH	4-mercapto-3-pyridyl
O         propyl         OH         2-methylthio-3-pyridyl           O         propyl         OH         4-methylthio-3-pyridyl           O         propyl         OH         5-methylthio-3-pyridyl           O         propyl         OH         6-methylthio-3-pyridyl           O         propyl         OH         2,6-dimethyl-3-pyridyl           O         propyl         OH         2,6-diethyl-3-pyridyl           O         propyl         OH         2,6-diethyl-3-pyridyl           O         propyl         OH         2,6-diethyl-3-pyridyl           O         propyl         OH         2,6-diethoxy-3-pyridyl           O         propyl         OH         2,6-diethoxy-3-pyridyl           O         propyl         OH         2,6-diethoxy-3-pyridyl           O         propyl         OH         2,6-diethoxy-3-pyridyl           O         propyl         OH         5,6-diethloro-3-pyridyl           O         propyl         OH         5,6-diethloro-3-pyridyl           O         propyl         OH         5,6-diethloro-3-pyridyl           O         propyl         OH         5-chloro-6-methoxy-3-pyridyl           O         propyl         OH         2-		propyl		5-mercapto-3-pyridyl
O         propyl         OH         4-methylthio-3-pyridyl           O         propyl         OH         5-methylthio-3-pyridyl           O         propyl         OH         6-methylthio-3-pyridyl           O         propyl         OH         2,6-dimethyl-3-pyridyl           O         propyl         OH         2,6-diethyl-3-pyridyl           O         propyl         OH         2,6-diethyl-3-pyridyl           O         propyl         OH         2,6-diethoxy-3-pyridyl           O         propyl         OH         5,6-diethoxy-3-pyridyl           O         propyl         OH         5,6-diethoxy-3-pyridyl           O         propyl         OH         5,6-diethoxy-3-pyridyl           O         propyl         OH         2-chloro-6		propyl		6-mercapto-3-pyridyl
O         propyl         OH         5-methylthio-3-pyridyl           O         propyl         OH         6-methylthio-3-pyridyl           O         propyl         OH         2,6-dimethyl-3-pyridyl           O         propyl         OH         5,6-diethyl-3-pyridyl           O         propyl         OH         2,6-diethyl-3-pyridyl           O         propyl         OH         2,6-diethyl-3-pyridyl           O         propyl         OH         2,6-diethoxy-3-pyridyl           O         propyl         OH         5,6-diethoxy-3-pyridyl           O         propyl         OH         5,6-diethoxy-3-pyridyl           O         propyl         OH         5,6-diethoxy-3-pyridyl           O         propyl         OH         5-chloro-6-methyl-3-pyridyl           O         propyl         OH         2-chloro-6-methyl-3-pyridyl           O         propyl         OH         2		propyl	OH	2-methylthio-3-pyridyl
O         propyl         OH         6-methylthio·3-pyridyl           O         propyl         OH         2,6-dimethyl·3-pyridyl           O         propyl         OH         5,6-dimethyl·3-pyridyl           O         propyl         OH         2,6-diethyl·3-pyridyl           O         propyl         OH         2,6-diethyl·3-pyridyl           O         propyl         OH         2,6-diethoxy-3-pyridyl           O         propyl         OH         5,6-diethoxy-3-pyridyl           O         propyl         OH         2,6-diethoxy-3-pyridyl           O         propyl         OH         2,6-diethoxy-3-pyridyl           O         propyl         OH         2,6-diethoxy-3-pyridyl           O         propyl         OH         5,6-diethoxy-3-pyridyl           O         propyl         OH         5,6-diethoxy-3-pyridyl           O         propyl         OH         5,6-diethoxy-3-pyridyl           O         propyl         OH         5,6-diethoxy-3-pyridyl           O         propyl         OH         5-chloro-6-methyl-3-pyridyl           O         propyl         OH         2-chloro-6-methyl-3-pyridyl           O         propyl         OH		propyl		4-methylthio-3-pyridyl
O         propyl         OH         2,6-dimethyl-3-pyridyl           O         propyl         OH         5,6-dimethyl-3-pyridyl           O         propyl         OH         2,6-diethyl-3-pyridyl           O         propyl         OH         2,6-diethyl-3-pyridyl           O         propyl         OH         2,6-diethoxy-3-pyridyl           O         propyl         OH         5,6-diethoxy-3-pyridyl           O         propyl         OH         5-chloro-6-ethoxy-3-pyridyl           O         propyl         OH         5-chloro-6-ethoxy-3-pyridyl           O         propyl         OH         2-chloro-6-ethoxy-3-pyridyl           O         propyl         OH         2-ethoro-6-ethoxy-3-pyridyl           O         propyl         OH	0	propyl	OH	5-methylthio-3-pyridyl
O         propyl         OH         5,6-dimethyl-3-pyridyl           O         propyl         OH         2,6-diethyl-3-pyridyl           O         propyl         OH         5,6-diethyl-3-pyridyl           O         propyl         OH         5,6-dimethoxy-3-pyridyl           O         propyl         OH         2,6-diethoxy-3-pyridyl           O         propyl         OH         2,6-dichloro-3-pyridyl           O         propyl         OH         5,6-dichloro-3-pyridyl           O         propyl         OH         5,6-dichloro-6-methoxy-3-pyridyl           O         propyl         OH         5,6-dichloro-6-methoxy-3-pyridyl           O         propyl         OH         2-chloro-6-methoxy-3-pyridyl           O         propyl         OH         2-methyl-4-pyridyl           O         propyl         OH		propyl	OH	6-methylthio-3-pyridyl
O         propyl         OH         5,6-dimethyl-3-pyridyl           O         propyl         OH         2,6-diethyl-3-pyridyl           O         propyl         OH         5,6-diethyl-3-pyridyl           O         propyl         OH         2,6-dimethoxy-3-pyridyl           O         propyl         OH         2,6-diethoxy-3-pyridyl           O         propyl         OH         5,6-diethoxy-3-pyridyl           O         propyl         OH         5,6-diethoxy-3-pyridyl           O         propyl         OH         5,6-diethoxy-3-pyridyl           O         propyl         OH         5,6-diethoxy-3-pyridyl           O         propyl         OH         5-chloro-6-methoxy-3-pyridyl           O         propyl         OH         5-chloro-6-methoxy-3-pyridyl           O         propyl         OH         5-chloro-6-methoxy-3-pyridyl           O         propyl         OH         2-chloro-6-methoxy-3-pyridyl           O         propyl         OH         2-chloro-6-methyl-3-pyridyl           O         propyl         OH         2-chloro-6-methyl-3-pyridyl           O         propyl         OH         2-methyl-4-pyridyl           O         propyl <td< td=""><td></td><td>propyl</td><td>OH</td><td>2,6-dimethyl-3-pyridyl</td></td<>		propyl	OH	2,6-dimethyl-3-pyridyl
O         propyl         OH         2,6-diethyl-3-pyridyl           O         propyl         OH         5,6-diethyl-3-pyridyl           O         propyl         OH         2,6-diethoxy-3-pyridyl           O         propyl         OH         2,6-diethoxy-3-pyridyl           O         propyl         OH         2,6-diethoxy-3-pyridyl           O         propyl         OH         5,6-diethoxy-3-pyridyl           O         propyl         OH         5,6-diethoro-3-pyridyl           O         propyl         OH         5,6-diethoro-3-pyridyl           O         propyl         OH         5,6-diethoro-3-pyridyl           O         propyl         OH         5-chloro-6-methyl-3-pyridyl           O         propyl         OH         2-chloro-6-methyl-3-pyridyl           O         propyl         OH         2-chloro-6-methyl-3-pyridyl           O         propyl         OH         2-chloro-6-methyl-3-pyridyl           O         propyl         OH         2-chloro-6-methyl-3-pyridyl           O         propyl         OH         2-methyl-4-pyridyl           O         propyl         OH         2-methyl-4-pyridyl           O         propyl         OH		propyl	OH.	5,6-dimethyl-3-pyridyl
O propyl OH 2,6-dimethoxy-3-pyridyl O propyl OH 5,6-dimethoxy-3-pyridyl O propyl OH 2,6-diethoxy-3-pyridyl O propyl OH 2,6-diethoxy-3-pyridyl O propyl OH 5,6-diethoxy-3-pyridyl O propyl OH 5,6-diethoxy-3-pyridyl O propyl OH 5,6-dichloro-3-pyridyl O propyl OH 5,6-dichloro-3-pyridyl O propyl OH 5-chloro-6-methoxy-3-pyridyl O propyl OH 5-chloro-6-methoxy-3-pyridyl O propyl OH 5-chloro-6-methoxy-3-pyridyl O propyl OH 2-chloro-6-methyl-3-pyridyl O propyl OH 2-chloro-6-methyl-3-pyridyl O propyl OH 2-chloro-6-methyl-3-pyridyl O propyl OH 2-methyl-4-pyridyl O propyl OH 2-methyl-4-pyridyl O propyl OH 2-methoxy-4-pyridyl O propyl OH 2-methoxy-4-pyridyl O propyl OH 2-chloro-4-pyridyl O propyl OH 2-dimethylamino-4-pyridyl O propyl OH 2-dimethylamino-4-pyridyl O propyl OH 2-piperidino-4-pyridyl O propyl OH 2-morpholino-4-pyridyl O propyl OH 2-methylthio-4-pyridyl O propyl OH 5-methyl-2-pyrazinyl O propyl OH 5-methoxy-2-pyrazinyl O propyl OH 5-methoxy-2-pyrazinyl O propyl OH 5-methoxy-2-pyrazinyl O propyl OH 5-methoxy-2-pyrazinyl O propyl OH 5-chloro-2-pyrazinyl O propyl OH 5-methoxy-2-pyrazinyl		propyl	OH	
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O propyl OH 5-chloro-2-pyrazinyl O propyl OH 6-methyl-2-pyrazinyl O propyl OH 6-methoxy-2-pyrazinyl	0		OH	
O propyl OH 6-methyl-2-pyrazinyl O propyl OH 6-methoxy-2-pyrazinyl	0			
O propyl OH 6-methoxy-2-pyrazinyl	0		OH	
	0			
V propyl OH 6-chloro-2-pyrazinyl	0	propyl	OH	6-chloro-2-pyrazinyl

X	R <sup>1</sup>	R <sup>2</sup>	Y
0	propyl	OCOOMe	2-pyridyl
0	propyl	OCOOMe	3-pyridyl
0	propyl	OCOOMe	4-pyridyl
0	propyl	OCOOMe	2-methyl-3-pyridyl
Q	propyl	OCOOMe	4-methyl-3-pyridyl
0	propyl	OCOOMe	5-methyl-9-pyridyl
0	propyl	OCOOMe	6-methyl-9-pyridyl
О	propyl	OCOOMe	2-ethyl-3-pyridyl
0	propyl	OCOOMe	4-ethyl-3-pyridyl
0	propyl	OCOOMe	5-ethyl-3-pyridyl
0	propyl	OCOOMe	6-ethyl-3-pyridyl
0	propyl	OCOOMe	2-methoxy-3-pyridyl
0	propyl	OCOOMe	4-methoxy-3-pyridyl
0	propyl	OCOOMe	5-methoxy-3-pyridyl
0	propyl	OCOOMe	6-methoxy-3-pyridyl
0	propyl	OCOOMe	2-ethoxy-3-pyridyl
Q	propyl	OCOOMe	4-ethoxy-3-pyridyl
0	propyl	OCOOMe	5-ethoxy-3-pyridyl
0	propyl	OCOOMe	6-ethoxy-3-pyridyl
0	propyl	OCOOMe	2-chloro-3-pyridyl
0	propyl	OCOOMe	4-chloro-3-pyridyl
0	propyl	OCOOMe	5-chloro-3-pyridyl
0	propyl	OCOOMe	6-chloro-3-pyridyl
0	propyl	OCOOMe	2-fluoro-3-pyridyl
0	propyl	OCOOMe	4-fluoro-3-pyridyl
Ò	propyl	OCOOMe	5-fluoro-3-pyridyl
Q	propyl	OCOOMe	6-fluoro-3-pyridyl
0	propyl	OCOOMe	2-dimethylamino-3-pyridyl
0	propyl	OCOOMe	4-dimethylamino-3-pyridyl
0	propyl	OCOOMe	5-dimethylamino-3-pyridyl
0	propyl	OCOOMe	6-dimethylamino-3-pyridyl
0	propyl	OCOOMe	2-(1-pyrrolidinyl)-3-pyridyl
0	propyl	OCOOMe	3-(1-pyrrolidinyl)-3-pyridyl
0	propyl	OCOOMe	5-(1-pyrrolidinyl)-3-pyridyl
0	propyl	OCOOMe	6-(1-pyrrolidinyl)-3-pyridyl
0	propyl	OCOOMe	2-piperidino-3-pyridyl
0	propyl	OCOOMe	4-piperidino-3-pyridyl
0	propyl	OCOOMe	5-piperidino-3-pyridyl
0	propyl	OCOOMe	6-piperidino-3-pyridyl
0	propyl	OCOOMe	2-morpholino-3-pyridyl
0	propyl	OCOOMe	4-morpholino-3-pyridyl
0	propyl	OCOOMe	5-morpholino-3-pyridyl
0	propyl	OCOOMe	6-morpholino-3-pyridyl
0	propyl	OCOOMe	2-hydroxy-3-pyridyl
0	propyl	OCOOMe	4-hydroxy-3-pyridyl
0	propyl	OCOOMe	5-hydroxy-3-pyridyl
0	propyl	OCOOMe	6-hydroxy-3-pyridyl
L	FKJ-	1 00001110	2 maron - a-ballan

0	propyl	OCOOMe	2-mercapto-3-pyridyl
0	propyl	OCOOMe	4-mercapto-3-pyridyl
0	propyl	OCOOMe	5-mercapto-3-pyridyl
0	propyl	OCOOMe	6-mercapto-3-pyridyl
0	propyl	OCOOMe	2-methylthio-3-pyridyl
0	propyl	OCOOMe	4-methylthio-3-pyridyl
0	propyl	OCOOMe	5-methylthio-3-pyridyl
0	propyl	OCOOMe	6-methylthio-3-pyridyl
0	propyl	OCOOMe	2,6-dimethyl-3-pyridyl
0	propyl	OCOOMe	5,6-dimethyl-3-pyridyl
0	propyl	OCOOMe	2,6-diethyl-3-pyridyl
0	propyl	OCOOMe	5,6-diethyl-3-pyridyl
0	propyl	OCOOMe	2,6-dimethoxy-3-pyridyl
0	propyl	OCOOMe	5,6-dimethoxy-3-pyridyl
0	propyl	OCOOMe	2,6-diethoxy-3-pyridyl
0	propyl	OCOOMe	5,6-diethoxy-3-pyridyl
0	propyl	OCOOMe	2,6-dichloro-3-pyridyl
0	propyl	OCOOMe	5,6-dichloro-3-pyridyl
0	propyl	OCOOMe	5-chloro-6-methoxy-3-pyridy1
0	propyl	OCOOMe	5-chloro-6-ethoxy-3-pyridyl
0	propyl	OCOOMe	2-chloro-6-methyl-3-pyridyl
0	propyl	OCOOMe	6-chloro-2-methyl-3-pyridyl
0	propyl	OCOOMe	2-methyl-4-pyridyl
0	propyl	OCOOMe	2-ethyl-4-pyridyl
0	propyl	OCOOMe	2-methoxy-4-pyridyl
0	propyl	OCOOMe	2-ethoxy-4-pyridyl
0	propyl	OCOOMe	2-chloro-4-pyridyl
0	propyl	OCOOMe	2-dimethylamino-4-pyridyl
0	propyl	ОСООМе	2-(1-pyrrolidinyl)-4-pyridyl
0	propyl	OCOOMe	2-piperidino-4-pyridyl
0	propyl	OCOOMe	2-morpholino-4-pyridyl
0	propyl	OCOOMe	2-methylthio-4-pyridyl
0	propyl	OCOOMe	2-pyrazinyl
0	propyl	OCOOMe	5-methyl-2-pyrazinyl
0	propyl	OCOOMe	5-ethyl-2-pyrazinyl
0	propyl	OCOOMe	5-methoxy-2-pyrazinyl
0	propyl	OCOOMe	5-ethoxy-2-pyrazinyl
0	propyl	OCOOM <sub>0</sub>	5-chloro-2-pyrazinyl
0	propyl	OCOOMe	6-methyl-2-pyrazinyl
0	propyl	OCOOMe	6-methoxy-2-pyrazinyl
0	propyl	OCOOMe	6-chloro-2-pyrazinyl
			1 7 7

X	R1	R <sup>2</sup>	Y
0	propyl	OCOOEt	2-pyridyl
0	propyl	OCOOEt	3-pyridyl
0	propyl	OCOOEt	4-pyridyl
0	propyl	OCOOEt	2-methyl-3-pyridyl
0	propyl	OCOOEt	4-methyl-3-pyridyl
0	propyl	OCOOEt	5-methyl-3-pyridyl
0	propyl	OCOOEt	6-methyl-3-pyridyl
0	propyl	OCOOEt	2-ethyl-3-pyridyl
0	propyl	OCOOEi	4-ethyl-3-pyridyl
0	propyl	OCOOEt	5-ethyl-3-pyridyl
0	propyl	OCOOEt	6-ethyl-3-pyridyl
0	propyl	OCOOEt	2-methoxy-3-pyridyl
0	propyl	OCOOEt	4-methoxy-3-pyridyl
0	propyl	OCOOEt	5-methoxy-3-pyridyl
0	propyl	OCOOEt	6-methoxy-3-pyridyl
0	propyl	OCOOEt	2-ethoxy-3-pyridyl
0	propyl	OCOOEt	4-ethoxy-3-pyridyl
0	propyl	OCOOEt	5-ethoxy-3-pyridyl
0	propyl	OCOOEt	6-ethoxy-3-pyridyl
0	propyl	OCOOEt	2-chloro-3-pyridyl
0	propyl	OCOOEt	4-chloro-3-pyridyl
0	propyl	OCOOEt	5-chloro-3-pyridyl
0	propyl	OCOOEt	6-chloro-3-pyridyl
0	propyl	OCOOEt	2-fluoro-3-pyridyl
0	propyl	OCOOEt	4-fluoro-3-pyridyl
0	propyl	OCOOEt	5-fluoro-3-pyridyl
0	propyl	OCOOEt	6-fluoro-3-pyridyl
0	propyi	OCOOEt	2-dimethylamino-3-pyridyl
0	propyl	OCOOEt	4-dimethylamino-3-pyridyl
0	propyl	OCOOEt	5-dimethylamino-3-pyridyl
0	. propyl	OCOOEt	6-dimethylamino-3-pyridyl
0	propyl	OCOOEt	2-(1-pyrrolidinyl)-3-pyridyl
0	propyl	OCOOEt	3-(1-pyrrolidinyl)-3-pyridyl
O	propyl	OCOOEt	5-(1-pyrrolidinyl)-3-pyridyl
0	propyl	OCOOEt	6-(1-pyrrolidinyl)-3-pyridyl
0	propyl	OCOOEt	2-piperidino-3-pyridyl
Q	propyl	OCOOEt	4-piperidino-3-pyridyl
0	propyl	OCOOEt	5-piperidino-3-pyridyl
0	propyl	OCOOEt	6-piperidino-3-pyridyl
0	propyl	OCOOEt	2-morpholino-3-pyridyl
0	propyl	OCOOEt	4-morpholino-3-pyridyl
0	propyl	OCOOEt	5-morpholino-3-pyridyl
0	propyl	OCOOEt	6-morpholino-3-pyridyl
0	propyl	OCOOEt	2-hydroxy-3-pyridyl
0	propyl	OCOOEt	4-hydroxy-3-pyridyl
0	propyl	OCOOEt	5-hydroxy-3-pyridyl
0	propyl	OCOOEt	6-hydroxy-3-pyridyl
	FF#-	300020	drony - o-pyrruyr

0	propyl	OCOOEt	2-mercapto-3-pyridyl
ō	propyl	OCOOEt	4-mercapto-3-pyridyl
0	propyl	OCOOEt	5-mercapto-3-pyridyl
0	propyl	OCOOEt	6-mercapto-3-pyridyl
0	propyl	OCOOEt	2-methylthio-3-pyridyl
0	propyl	OCOOEt	4-methylthio-3-pyridyl
0	propyl	OCOOEt	5-methylthio-3-pyridyl
Ō	propyl	OCOOEt	6-methylthio-3-pyridyl
Ö	propyl	OCOOEt	2,6-dimethyl-3-pyridyl
0	propyl	OCOOEt	5,6-dimethyl-3-pyridyl
0	propyl	OCOOEt	2,6-diethyl-3-pyridyl
Ō	propyl	OCOOEt	5,6-diethyl-3-pyridyl
0	propyl	OCOOEt	2,6-dimethoxy-3-pyridyl
0	propyl	OCOOEt	5,6-dimethoxy-3-pyridyl
0	propyl	OCOOEt	2,6-diethoxy-3-pyridyl
0	propyl	OCOOEt	5,6-diethoxy-3-pyridyl
0	propyl	OCOOEt	2,6-dichloro-3-pyridyl
0	propyl	OCOOEt	5,6-dichloro-3-pyridyl
0	propyl	OCOOEt	5-chloro-6-methoxy-3-pyridy1
0	propyl	OCOOEt	5-chloro-6-ethoxy-3-pyridyl
0	propyl	OCOOEt	2-chloro-6-methyl-3-pyridyl
0	propyl	OCOOEt	6-chloro-2-methyl-3-pyridyl
O	propyl	OCOOEt	2-methyl-4-pyridyl
0	propyl	OCOOEt	2-ethyl-4-pyridyl
O	propyl	OCOOEt	2-methoxy-4-pyridyl
0	propyl	OCOOEt	2-ethoxy-4-pyridyl
0	propyl	OCOOEt	2-chloro-4-pyridyl
0	propyl	OCOOEt	2-dimethylamino-4-pyridyl
0	propyl	OCOOEt	2-(1-pyrrolidinyl)-4-pyridyl
0	propyl	OCOOEt	2-piperidino-4-pyridyl
0	propyl	OCOOEt	2-morpholino-4-pyridyl
O	propyl	OCOOEt	2-methylthio-4-pyridyl
0	propyl	OCOOEt	2-pyrazinyl
Q	propyl	OCOOEt	5-methyl-2-pyrazinyl
0	propyl	OCOOEt	5-ethyl-2-pyrazinyl
0	propyl	OCOOEt	5-methoxy-2-pyrazinyl
0	propyl	OCOOEt	5-ethoxy-2-pyrazinyl
0	propyl	OCOOEt	5-chloro-2-pyrazinyl
O	propyl	OCOOEt	6-methyl-2-pyrazinyl
0	propyl	OCOOEt	6-methoxy-2-pyrazinyl
0	propyl	OCOOEt	6-chloro-2-pyrazinyl

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	7.1		
X	R,	R <sup>2</sup>	Y
0	n-butyl	OH	2-pyridyl
0	n-butyl	OH	3-pyridyl
0	n-butyl	ОН	4-pyridyl
0	n-butyl	OH	2-methyl-3-pyridyl
0	n-butyl	OH	4-methyl-3-pyridyl
0	n-butyl	OH	5-methyl-3-pyridyl
0	n-hutyl	OH	6-methyl-3-pyridyl
0	n-butyl	OH	2-ethyl-3-pyridyl
0	n-butyl	OH	4-ethyl-3-pyridyl
0	n-butyl	OH	5-ethyl-3-pyridyl
0	n-butyl	ОН	6-ethyl-3-pyridyl
0	n-butyl	ОН	2-methoxy-3-pyridyl
0	n-butyl	ОН	4-methoxy-3-pyridyl
0	n-butyl	ОН	5-methoxy-3-pyridyl
0	n-butyl	OH	6-methoxy-3-pyridyl
0	n-butyl	OH	2-ethoxy-3-pyridyl
0	n-butyl	ОН	4-ethoxy-3-pyridyl
0	n-butyl	ОН	5-ethoxy-3-pyridyl
0	n-butyl	ОН	6-ethoxy-3-pyridyl
0	n-butyl	ОН	2-chloro-3-pyridyl
0	n-butyl	ОН	4-chloro-3-pyridyl
0	n-butyl	ОН	5-chloro-3-pyridyl
0	n-butyl	OH	6-chloro-3-pyridyl
0	n-butyl	OH	2-fluoro-3-pyridyl
0	n-butyl	ОН	4-fluoro-3-pyridyl
0	n-butyl	ОН	5-fluoro-3-pyridyl
0	n-butyl	ОН	6-fluoro-3-pyridyl
0	n-butyl	ОН	2-dimethylamino-3-pyridyl
0	n-butyl	OH	4-dimethylamino-3-pyridyl
0	n-butyl	ОН	5-dimethylamino-3-pyridyl
O	n-butyl	OH	6-dimethylamino-3-pyridyl
0	n-butyl	OH	2-(1-pyrrolidinyl)-3-pyridyl
0	n-butyl	OH	8-(1-pyrrolidinyl)-3-pyridyl
0	n-butyl	ОН	5-(1-pyrrolidinyl)-3-pyridyl  5-(1-pyrrolidinyl)-3-pyridyl
0	n-butyl	OH	6-(1-pyrrolidinýl)-3-pyridyl
0	n-butyl	OH	
0	n-butyl	OH	2-piperidino-3-pyridyl
0	n-butyl n-butyl		4-piperidino-3-pyridyl
0		OH	5-piperidino-3-pyridyl
	n-butyl	OH	6-piperidino-3-pyridyl
0	n-butyl	OH	2-morpholino-3-pyridyl
0	n-butyl	OH	4-morpholino-3-pyridyl
0	n-butyl	OH	5-morpholino-3-pyridyl
0	n-butyl	ОН	6-morpholino-3-pyridyl
O	n-butyl	OH	2-hydroxy-3-pyridyl
0	n-butyl	OH	4-hydroxy-8-pyridyl
0	n-butyl	OH	5-hydroxy-3-pyridyl
0	n-butyl	ОН	6-hydroxy-3-pyridyl

0	n-butyl	OH	2-mercapto-3-pyridyl
0	n-butyl	OH	4-mercapto-3-pyridyl
0	n-butyl	ОН	5-mercapto-3-pyridyl
0	n-butyl	OH	6-mercapto-3-pyridyl
0	n-butyl	ОН	2-methylthio-3-pyridyl
0	n-butyl	OH	4-methylthio-3-pyridyl
0	n-butyl	OH	5-methylthio-3-pyridyl
O	n-butyl	OH	6-methylthio-8-pyridyl
0	n-butyl	OH	2,6-dimethyl-3-pyridyl
0	n-butyl	OH	5,6-dimethyl-3-pyridyl
0	n-butyl	OH	2,6-diethyl-3-pyridyl
0	n-butyl	OH	5,6-diethyl-3-pyridyl
0	n-butyl	OH	2,6-dimethoxy-3-pyridyl
0	n-butyl	OH	5,6-dimethoxy-3-pyridyl
0	n-butyl	OH	2,6-diethoxy-3-pyridyl
0	n-butyl	OH	5,6-diethoxy-3-pyridyl
0	n-butyl	ОН	2,6-dichloro-3-pyridyl
0	n-butyl	OH	5,6-dichloro-3-pyridyl
0	n-butyl	OH	5-chloro-6-methoxy-3-pyridy1
0	n-butyl	ОН	5-chloro-6-ethoxy-3-pyridyl
0	n-butyl	OH	2-chloro-6-methyl-3-pyridyl
0	n-butyl	OH	6-chloro-2-methyl-3-pyridyl
0	n-butyl	OH	2-methyl-4-pyridyl
0	n-butyl	OH	2-ethyl-4-pyridyl
0	n-butyl	OH	2-methoxy-4-pyridyl
0	n-butyl	OH	2-ethoxy-4-pyridyl
0	n-butyl	ОН	2-chloro-4-pyridyl
0	n-butyl	OH	2-dimethylamino-4-pyridyl
О	n-butyl	ОН	2-(1-pyrrolidinyl)-4-pyridyl
0	n-butyl	OH	2-piperidino-4-pyridyl
0	n-butyl	ОН	2-morpholino-4-pyridyl
0	n-butyl	ОН	2-methylthio-4-pyridyl
O	n-butyl	OH	2-pyrazinyl
0	n-butyl	OH	5-methyl-2-pyrazinyl
0	n-butyl	OH	5-ethyl-2-pyrazinyl
0	n-butyl	OH	5-methoxy-2-pyrazinyl
0	n-butyl	OH	5-ethoxy-2-pyrazinyl
0	n-butyl	OH	5-chloro-2-pyrazinyl
0	n-butyl	ОН	6-methyl-2-pyrazinyl
0	n-butyl	OH	6-methoxy-2-pyrazinyl
0	n-butyl	OH	6-chloro-2-pyrazinyl
		VII.	1 0-chioro-z-pyrazinyi

X	$\mathbb{R}^1$	$\mathbb{R}^2$	Y
0	n-butyl	OCOOMe	2-pyridyl
0	n-butyl	OCOOMe	3-pyridyl
0	n-butyl	OCOOMe	4-pyridyl
0	n-butyl	OCOOMe	2-methyl-3-pyridyl
0	n-butyl	OCOOMe	4-methyl-3-pyridyl
0	n-butyl	OCOOMe	5-methyl-3-pyridyl
0	n-butyl	OCOOMe	6-methyl-3-pyridyl
0	n-butyl	OCOOMe	2-ethyl-3-pyridyl
0	n-butyl	OCOOMe	4-ethyl-3-pyridyl
0	n-butyl	OCOOMe	5-ethyl-3-pyridyl
0	n-butyl	OCOOMe	6-ethyl-3-pyridyl
0	n-butyl	OCOOMe	2-methoxy-3-pyridyl
0	n-butyl	OCOOMe	4-methoxy-3-pyridyl
0	n-butyl	OCOOMe	5-methoxy-3-pyridyl
О	n-butyl	OCOOMe	6-methoxy-3-pyridyl
0	n-butyl	OCOOMe	2-ethoxy-3-pyridyl
O	n-butyl	OCOOMe	4-ethoxy-3-pyridyl
0	n-butyl	OCOOMe	5-ethoxy-3-pyridyl
0	n-butyl	OCOOMe	6-ethoxy-3-pyridyl
0	n-butyl	OCOOMe	2-chloro-3-pyridyl
0	n-butyl	OCOOMe	4-chloro-3-pyridyl
0	n-butyl	OCOOMe	5-chloro-3-pyridyl
0	n-butyl	OCOOMe	6-chloro-3-pyridyl
0	n-butyl	OCOOMe	2-fluoro-3-pyridyl
0	n-butyl	OCOOMe	4-fluoro-3-pyridyl
0	n-butyl	OCOOMe	5-fluoro-3-pyridyl
О	n-butyl	OCOOMe	6-fluoro-3-pyridyl
0	n-butyl	OCOOMe	2-dimethylamino-3-pyridyl
O	n-butyl	OCOOMe	4-dimethylamino-3-pyridyl
0	n-butyl	OCOOMe	5-dimethylamino-3-pyridyl
0	n-butyl	OCOOMe	6-dimethylamino-3-pyridyl
0	n-butyl	OCOOMe	2-(1-pyrrolidinyl)-3-pyridyl
0	n-butyl	OCOOMe	3-(1-pyrrolidinyl)-3-pyridyl
О	n-butyl	OCOOMe	5-(1-pyrrolidinyl)-3-pyridyl
0	n-butyl	OCOOMe	6-(1-pyrrolidinyl)-3-pyridyl
0	n-butyl	OCOOMe	2-piperidino-3-pyridyl
ō	n-butyl	OCOOMe	4-piperidino-3-pyridyl
0	n-butyl	OCOOMe	5-piperidino-3-pyridyl
0	n-butyl	OCOOMe	6-piperidino-3-pyridyl
0	n-butyl	OCOOMe OCOOMe	2-morpholino-3-pyridyl
0	n-butyl	OCOOMe OCOOMe	
0	n-butyl	OCOOMe	4-morpholino-3-pyridyl
0	n-butyl	OCOOMe	5-morpholino-3-pyridyl
0	n-butyl	OCOOMe OCOOMe	6-morpholino-3-pyridyl
0			2-hydroxy-3-pyridyl
0	n-butyl	OCOOMe	4-hydroxy-3-pyridyl
0	n-butyl	OCOOMe	5-hydroxy-3-pyridyl
0	n-butyl	OCOOMe	6-hydroxy-3-pyridyl

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0	n-butyl	OCOOMe	2-mercapto-3-pyridyl
0	n-butyl	OCOOMe	4-mercapto-3-pyridyl
0	n-butyl	OCOOMe	5-mercapto-3-pyridyl
0	n-butyl	OCOOMe	6-mercapto-3-pyridyl
0	n-butyl	OCOOMe	2-methylthio-3-pyridyl
0	n-butyl	OCOOMe	4-methylthio-3-pyridyl
0	n-butyl	OCOOMe	5-methylthio-3-pyridyl
0	n-butyl	OCOOMe	6-methylthio-3-pyridyl
0	n-butyl	OCOOMe	2,6-dimethyl-3-pyridyl
0	n-butyl	OCOOMe	5,6-dimethyl-3-pyridyl
0	n-butyl	OCOOMe	2,6-diethyl-3-pyridyl
0	n-butyl	OCOOMe	5,6-diethyl-3-pyridyl
0	n-butyl	OCOOMe	2,6-dimethoxy-3-pyridyl
0	n-butyl	OCOOMe	5,6-dimethoxy-3-pyridyl
0	n-butyl	OCOOMe	2,6-diethoxy-3-pyridyl
0	n-butyl	OCOOMe	5,6-diethoxy-3-pyridyl
0	n-butyl	OCOOMe	2,6-dichloro-3-pyridyl
0	n-butyl	OCOOMe	5,6-dichloro-3-pyridyl
0	n-butyl	OCOOMe	5-chloro-6-methoxy-3-pyridyl
0	n-butyl	OCOOMe	5-chloro-6-ethoxy-3-pyridyl
0	n-butyl	OCOOMe	2-chloro-6-methyl-3-pyridyl
0	n-butyl	OCOOMe	6-chloro-2-methyl-3-pyridyl
0	n-butyl	OCOOMe	2-methyl-4-pyridyl
0	n-butyl	OCOOMe	2-ethyl-4-pyridyl
0	n-butyl	OCOOMe	2-methoxy-4-pyridyl
0	n-butyl	OCOOMe	2-ethoxy-4-pyridyl
0	n-butyl	OCOOMe	2-chloro-4-pyridyl
0	n-butyl	OCOOMe	2-dimethylamino-4-pyridyl
0	n-butyl	OCOOMe	2-(1-pyrrolidinyl)-4-pyridyl
0	n-butyl	OCOOMe	2-piperidino-4-pyridyl
0	n-butyl	OCOOMe	2-morpholino-4-pyridyl
0	n-butyl	OCOOMe	2-methylthio-4-pyridyl
0	n-butyl	OCOOMe	2-pyrazinyl
0	n-butyl	OCOOMe	5-methyl-2-pyrazinyl
0	n-butyl	OCOOMe	5-ethyl-2-pyrazinyl
0	n-butyl	OCOOMe	5-methoxy-2-pyrazinyl
0	n-butyl	OCOOMe	6-ethoxy-2-pyrazinyl
0	n-butyl	OCOOMe	5-chloro-2-pyrazinyl
0	n-butyl	OCOOMe	6-methyl-2-pyrazinyl
0	n-butyl	OCOOMe	6-methoxy-2-pyrazinyl
0	n-butyl	OCOOMe	6-chloro-2-pyrazinyl
	11 2 4 5 1	00001110	G-CHIOTO-Z-pyrazinyi

X	R <sup>1</sup> n-butyl	R²	Y
0	- h41		
<del></del>	n-butyi	OCOOEt	2-pyridyl
0	n-butyl	OCOOEt	3-pyridyl
0	n-butyl	OCOOEt	4-pyridyl
0	n-butyl	OCOOEt	2-methyl-3-pyridyl
0	n-butyl	OCOOEt	4-methyl-3-pyridyl
0	n-butyl	OCOOEt	5-methyl-3-pyridyl
0	n-butyl	OCOOEt	6-methyl-3-pyridyl
O	n-butyl	OCOOEt	2-ethyl-3-pyridyl
O	n-butyl	OCOOEt	4-ethyl-3-pyridyl
0	n-butyl	OCOOEt	5-ethyl-3-pyridyl
0	n-butyl	OCOOEt	6-ethyl-3-pyridyl
0	n-butyl	OCOOEt	2-methoxy-3-pyridyl
0	n-butyl	OCOOEt	4-methoxy-3-pyridyl
0	n-butyl	OCOOEt	5-methoxy-3-pyridyl
0	n-butyl	OCOOEt	6-methoxy-3-pyridyl
0	n-butyl	OCOOEt	2-ethoxy-3-pyridyl
0	n-butyl	OCOOEt	4-ethoxy-3-pyridyl
0	n-butyl	OCOOEt	5-ethoxy-3-pyridyl
0	n-butyl	OCOOEt	6-ethoxy-3-pyridyl
Ō	n-butyl	OCOOEt	2-chloro-3-pyridyl
O	n-butyl	OCOOEt	4-chloro-3-pyridyl
0	n-butyl	OCOOEt	5-chloro-3-pyridyl
0	n-butyl	OCOOEt	6-chloro-3-pyridyl
0	n-butyl	OCOOEt	2-fluoro-3-pyridyl
0	n-butyl	OCOOEt	
0	n-butyl	OCOOEt	4-fluoro-3-pyridyl 5-fluoro-3-pyridyl
0	n-butyl	OCOOEt	
0	n-butyl	OCOOEt	6-fluoro-3-pyridyl
0	n-butyl	OCOOEt	2-dimethylamino-3-pyridyl
0	n-butyl	OCOOEt	4-dimethylamino-3-pyridyl
0	n-butyl		5-dimethylamino-3-pyridyl
0	n-butyl	OCOOEt	6-dimethylamino-3-pyridyl
0	<del></del>	OCOOEt OCOOEt	2-(1-pyrrolidinyl)-3-pyridyl
0	n-butyl		3-(1-pyrrolidinyl)-3-pyridyl
0	n-butyl n-butyl	OCOOEt	5-(1-pyrrolidinyl)-3-pyridyl
0		OCOOEt	6-(1-pyrrolidinyl)-3-pyridyl
0	n-butyl	OCOOEt	2-piperidino-3-pyridyl
0	n-butyl	OCOOEt	4-piperidino-3-pyridyl
0	n-butyl	OCOOEt	5-piperidino-3-pyridyl
0	n-butyl	OCOOEt	6-piperidino-3-pyridyl
	n-butyl	OCOOEt	2-morpholino-3-pyridyl
0	n-butyl	OCOOEt	4-morpholino-8-pyridyl
0	n-butyl	OCOOEt	5-morpholino-3-pyridyl
0	n-butyl	OCOOEt	6-morpholino-3-pyridyl
0	n-butyl	OCOOEt	2-hydroxy-3-pyridyl
0	n-butyl	OCOOEt	4-hydroxy-3-pyridyl
0	n-butyl	OCOOEt	5-hydroxy-3-pyridyl
0	n-butyl	OCOOEt	6-hydroxy-3-pyridyl

0		OCCOR	0
0	n-butyl	OCOOEt	2-mercapto-3-pyridyl
	n-butyl	OCOOEt	4-mercapto-3-pyridyl
0	n-butyl	OCOOEt	5-mercapto-3-pyridyl
	n-butyl	OCOOEt	6-mercapto-3-pyridyl
0	n-butyl	OCOOEt	2-methylthio-3-pyridyl
0	n-butyl	OCOOEt	4-methylthio-3-pyridyl
0	n-butyl	OCOOEt	5-methylthio-3-pyridyl
0	n-butyl	OCOOEt	6-methylthio-3-pyridyl
0	n-butyl	OCOOEt	2,6-dimethyl-3-pyridyl
0	n-butyl	OCOOEt	5,6-dimethyl-3-pyridyl
0	n-butyl	OCOOEt	2,6-diethyl-3-pyridyl
0	n-butyl	OCOOEt	5,6-diethyl-3-pyridyl
0	n-butyl	OCOOEt	2,6-dimethoxy-3-pyridyl
0	n-butyl	OCOOEt	5,6-dimethoxy-3-pyridyl
0	n-butyl	OCOOEt	2,6-diethoxy-3-pyridyl
0	n-butyl	OCOOEt	5,6-diethoxy-3-pyridyl
0	n-butyl	OCOOEt	2,6-dichloro-3-pyridyl
Q	n-butyl	OCOOEt	5,6-dichloro-3-pyridyl
0	n-butyl	OCOOEt	5-chloro-6-methoxy-3-pyridyl
0	n-butyl	OCOOEt	5-chloro-6-ethoxy-3-pyridyl
0	n-butyl	OCOOEt	2-chloro-6-methyl-3-pyridyl
0	n-butyl	OCOOEt	6-chloro-2-methyl-3-pyridyl
O	n-butyl	OCOOEt	2-methyl-4-pyridyl
0	n-butyl	OCOOEt	2-ethyl-4-pyridyl
0	n-butyl	OCOOEt	2-methoxy-4-pyridyl
0	n-butyl	OCOOEt	2-ethoxy-4-pyridyl
0	n-butyl	OCOOEt	2-chloro-4-pyridyl
0	n-butyl	OCOOEt	2-dimethylamino-4-pyridyl
0	n-butyl	OCOOEt	2-(1-pyrrolidinyl)-4-pyridyl
0	n-butyl	OCOOEt	2-piperidino-4-pyridyl
0	n-butyl	OCOOEt	2-morpholino-4-pyridyl
0	n-butyl	OCOOEt	2-methylthio-4-pyridyl
0	n-butyl	OCOOEt	2-pyrazinyl
0	n-butyl	OCOOEt	5-methyl-2-pyrazinyl
0	n-butyl	OCOOEt	5-ethyl-2-pyrazinyl
0	n-butyl	OCOOEt	5-methoxy-2-pyrazinyl
0	n-butyl	OCOOEt	5-ethoxy-2-pyrazinyl
0	n-butyl	OCOOEt	5-chloro-2-pyrazinyl
0	n-butyl	OCOOEt	6-methyl-2-pyrazinyl
o	n-butyl	OCOOEt	6-methoxy-2-pyrazinyl
0	n-butyl	OCOOEt	6-chloro-2-pyrazinyl
		OOOODE	o-cinoro-z-pyrazinyi

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X				
O         n-pentyl         OH         2-pyridyl           O         n-pentyl         OH         3-pyridyl           O         n-pentyl         OH         4-pyridyl           O         n-pentyl         OH         2-methyl-3-pyridyl           O         n-pentyl         OH         6-methyl-3-pyridyl           O         n-pentyl         OH         6-methyl-3-pyridyl           O         n-pentyl         OH         2-ethyl-3-pyridyl           O         n-pentyl         OH         2-ethyl-3-pyridyl           O         n-pentyl         OH         6-methyl-3-pyridyl           O         n-pentyl         OH         6-ethyl-3-pyridyl           O         n-pentyl         OH         6-ethyl-3-pyridyl           O         n-pentyl         OH         6-methoxy-3-pyridyl           O         n-pentyl         OH         6-methoxy-3-pyridyl           O         n-pentyl         OH         6-methoxy-3-pyridyl           O         n-pentyl         OH         6-methoxy-3-pyridyl           O         n-pentyl         OH         6-ethoxy-3-pyridyl           O         n-pentyl         OH         6-ethoxy-3-pyridyl           O	X	K R1	$\mathbb{R}^2$	Y
O         n-pentyl         OH         3-pyridyl           O         n-pentyl         OH         4-pyridyl           O         n-pentyl         OH         2-methyl-3-pyridyl           O         n-pentyl         OH         4-methyl-3-pyridyl           O         n-pentyl         OH         6-methyl-3-pyridyl           O         n-pentyl         OH         2-ethyl-3-pyridyl           O         n-pentyl         OH         2-ethyl-3-pyridyl           O         n-pentyl         OH         6-ethyl-3-pyridyl           O         n-pentyl         OH         6-ethyl-3-pyridyl           O         n-pentyl         OH         2-methoxy-3-pyridyl           O         n-pentyl         OH         2-ethoxy-3-pyridyl           O         n-pentyl         OH         2-ethoxy-3-pyridyl           O         n-pentyl         OH         2-ethoxy-3-pyridyl			<del>- }</del>	
O         n-pentyl         OH         4-pyridyl           O         n-pentyl         OH         2-methyl-3-pyridyl           O         n-pentyl         OH         4-methyl-3-pyridyl           O         n-pentyl         OH         6-methyl-3-pyridyl           O         n-pentyl         OH         2-ethyl-3-pyridyl           O         n-pentyl         OH         4-ethyl-3-pyridyl           O         n-pentyl         OH         5-ethyl-3-pyridyl           O         n-pentyl         OH         5-ethyl-3-pyridyl           O         n-pentyl         OH         2-methoxy-3-pyridyl           O         n-pentyl         OH         2-methoxy-3-pyridyl           O         n-pentyl         OH         5-methoxy-3-pyridyl           O         n-pentyl         OH         5-methoxy-3-pyridyl           O         n-pentyl         OH         6-methoxy-3-pyridyl           O         n-pentyl         OH         4-ethoxy-3-pyridyl           O         n-pentyl         OH         4-ethoxy-3-pyridyl           O         n-pentyl         OH         5-ethoxy-3-pyridyl           O         n-pentyl         OH         6-ethoxy-3-pyridyl	C		OH	
O         n-pentyl         OH         2-methyl-3-pyridyl           O         n-pentyl         OH         4-methyl-3-pyridyl           O         n-pentyl         OH         5-methyl-3-pyridyl           O         n-pentyl         OH         2-ethyl-3-pyridyl           O         n-pentyl         OH         4-ethyl-3-pyridyl           O         n-pentyl         OH         5-ethyl-3-pyridyl           O         n-pentyl         OH         6-ethyl-3-pyridyl           O         n-pentyl         OH         6-ethyl-3-pyridyl           O         n-pentyl         OH         2-methoxy-3-pyridyl           O         n-pentyl         OH         5-methoxy-3-pyridyl           O         n-pentyl         OH         6-methoxy-3-pyridyl           O         n-pentyl         OH         6-ethoxy-3-pyridyl           O         n-pentyl         OH         4-ethoxy-3-pyridyl           O         n-pentyl         OH         4-ethoxy-3-pyridyl           O         n-pentyl         OH         6-ethoxy-3-pyridyl           O         n-pentyl         OH         6-ethoxy-3-pyridyl           O         n-pentyl         OH         6-ethoxy-3-pyridyl <t< td=""><td>C</td><td></td><td></td><td></td></t<>	C			
O         n-pentyl         OH         4-methyl-3-pyridyl           O         n-pentyl         OH         5-methyl-3-pyridyl           O         n-pentyl         OH         6-methyl-3-pyridyl           O         n-pentyl         OH         2-ethyl-3-pyridyl           O         n-pentyl         OH         6-ethyl-3-pyridyl           O         n-pentyl         OH         6-ethyl-3-pyridyl           O         n-pentyl         OH         2-methoxy-3-pyridyl           O         n-pentyl         OH         2-methoxy-3-pyridyl           O         n-pentyl         OH         5-methoxy-3-pyridyl           O         n-pentyl         OH         2-ethoxy-3-pyridyl           O         n-pentyl         OH         2-ethoxy-3-pyridyl           O         n-pentyl         OH         2-ethoxy-3-pyridyl           O         n-pentyl         OH         4-ethoxy-3-pyridyl           O         n-pentyl         OH         5-ethoxy-3-pyridyl           O         n-pentyl         OH         2-ethoxy-3-pyridyl           O         n-pentyl         OH         4-ethoxy-3-pyridyl           O         n-pentyl         OH         2-floro-3-pyridyl      <	C		OH	
O         n-pentyl         OH         5-methyl-3-pyridyl           O         n-pentyl         OH         6-methyl-3-pyridyl           O         n-pentyl         OH         2-ethyl-3-pyridyl           O         n-pentyl         OH         4-ethyl-3-pyridyl           O         n-pentyl         OH         6-ethyl-3-pyridyl           O         n-pentyl         OH         2-methoxy-3-pyridyl           O         n-pentyl         OH         2-methoxy-3-pyridyl           O         n-pentyl         OH         6-methoxy-3-pyridyl           O         n-pentyl         OH         6-methoxy-3-pyridyl           O         n-pentyl         OH         2-ethoxy-3-pyridyl           O         n-pentyl         OH         4-ethoxy-3-pyridyl           O         n-pentyl         OH         5-ethoxy-3-pyridyl           O         n-pentyl         OH         5-ethoxy-3-pyridyl           O         n-pentyl         OH         6-ethoxy-3-pyridyl           O         n-pentyl         OH         2-chloro-3-pyridyl           O         n-pentyl         OH         4-chloro-3-pyridyl           O         n-pentyl         OH         4-fluoro-3-pyridyl	0	n-pentyl	OH	
O         n-pentyl         OH         6-methyl-8-pyridyl           O         n-pentyl         OH         2-ethyl-3-pyridyl           O         n-pentyl         OH         4-ethyl-3-pyridyl           O         n-pentyl         OH         6-ethyl-3-pyridyl           O         n-pentyl         OH         2-methoxy-3-pyridyl           O         n-pentyl         OH         5-methoxy-3-pyridyl           O         n-pentyl         OH         6-methoxy-3-pyridyl           O         n-pentyl         OH         6-methoxy-3-pyridyl           O         n-pentyl         OH         6-methoxy-3-pyridyl           O         n-pentyl         OH         6-methoxy-3-pyridyl           O         n-pentyl         OH         4-ethoxy-3-pyridyl           O         n-pentyl         OH         5-ethoxy-3-pyridyl           O         n-pentyl         OH         6-ethoxy-3-pyridyl           O         n-pentyl         OH         6-ethoxy-3-pyridyl           O         n-pentyl         OH         4-chloro-3-pyridyl           O         n-pentyl         OH         4-fluoro-3-pyridyl           O         n-pentyl         OH         4-fluoro-3-pyridyl	C	n-pentyl	OH	
O         n-pentyl         OH         2-ethyl-3-pyridyl           O         n-pentyl         OH         4-ethyl-3-pyridyl           O         n-pentyl         OH         5-ethyl-3-pyridyl           O         n-pentyl         OH         2-methoxy-3-pyridyl           O         n-pentyl         OH         4-methoxy-3-pyridyl           O         n-pentyl         OH         5-methoxy-3-pyridyl           O         n-pentyl         OH         6-methoxy-3-pyridyl           O         n-pentyl         OH         2-ethoxy-3-pyridyl           O         n-pentyl         OH         4-ethoxy-3-pyridyl           O         n-pentyl         OH         5-ethoxy-3-pyridyl           O         n-pentyl         OH         6-ethoxy-3-pyridyl           O         n-pentyl         OH         6-ethoxy-3-pyridyl           O         n-pentyl         OH         2-chloro-3-pyridyl           O         n-pentyl         OH         4-chloro-3-pyridyl           O         n-pentyl         OH         4-fluoro-3-pyridyl           O         n-pentyl         OH         4-fluoro-3-pyridyl           O         n-pentyl         OH         4-fluoro-3-pyridyl	0	n-pentyl	OH	
O         n-pentyl         OH         4-ethyl-3-pyridyl           O         n-pentyl         OH         5-ethyl-3-pyridyl           O         n-pentyl         OH         6-ethyl-3-pyridyl           O         n-pentyl         OH         2-methoxy-3-pyridyl           O         n-pentyl         OH         5-methoxy-3-pyridyl           O         n-pentyl         OH         6-methoxy-3-pyridyl           O         n-pentyl         OH         2-ethoxy-3-pyridyl           O         n-pentyl         OH         4-ethoxy-3-pyridyl           O         n-pentyl         OH         4-ethoxy-3-pyridyl           O         n-pentyl         OH         5-ethoxy-3-pyridyl           O         n-pentyl         OH         6-ethoxy-3-pyridyl           O         n-pentyl         OH         2-ethoxy-3-pyridyl           O         n-pentyl         OH         2-ethoxy-3-pyridyl           O         n-pentyl         OH         4-ethoxy-3-pyridyl           O         n-pentyl         OH         4-ethoxy-3-pyridyl           O         n-pentyl         OH         4-floro-3-pyridyl           O         n-pentyl         OH         6-floro-3-pyridyl <t< td=""><td>0</td><td>n-pentyl</td><td>ОН</td><td></td></t<>	0	n-pentyl	ОН	
O         n-pentyl         OH         6-ethyl-3-pyridyl           O         n-pentyl         OH         2-methoxy-3-pyridyl           O         n-pentyl         OH         5-methoxy-3-pyridyl           O         n-pentyl         OH         5-methoxy-3-pyridyl           O         n-pentyl         OH         2-ethoxy-3-pyridyl           O         n-pentyl         OH         4-ethoxy-3-pyridyl           O         n-pentyl         OH         5-ethoxy-3-pyridyl           O         n-pentyl         OH         6-ethoxy-3-pyridyl           O         n-pentyl         OH         6-ethoxy-3-pyridyl           O         n-pentyl         OH         2-chloro-3-pyridyl           O         n-pentyl         OH         4-ethoxy-3-pyridyl           O         n-pentyl         OH         4-ethoxy-3-pyridyl           O         n-pentyl         OH         4-ethoxy-3-pyridyl           O         n-pentyl         OH         4-ethoxy-3-pyridyl           O         n-pentyl         OH         4-ethoro-3-pyridyl           O         n-pentyl         OH         4-fluoro-3-pyridyl           O         n-pentyl         OH         4-fluoro-3-pyridyl	0	n-pentyl	OH	
O         n-pentyl         OH         2-methoxy-3-pyridyl           O         n-pentyl         OH         4-methoxy-3-pyridyl           O         n-pentyl         OH         5-methoxy-3-pyridyl           O         n-pentyl         OH         6-methoxy-3-pyridyl           O         n-pentyl         OH         2-ethoxy-3-pyridyl           O         n-pentyl         OH         4-ethoxy-3-pyridyl           O         n-pentyl         OH         5-ethoxy-3-pyridyl           O         n-pentyl         OH         2-chloro-3-pyridyl           O         n-pentyl         OH         4-chloro-3-pyridyl           O         n-pentyl         OH         4-chloro-3-pyridyl           O         n-pentyl         OH         2-fluoro-3-pyridyl           O         n-pentyl         OH         4-fluoro-3-pyridyl           O         n-pentyl         OH         4-fluoro-3-pyridyl           O         n-pentyl         OH         4-fluoro-3-pyridyl           O         n-pentyl         OH         4-fluoro-3-pyridyl           O         n-pentyl         OH         6-fluoro-3-pyridyl           O         n-pentyl         OH         6-fluoro-3-pyridyl	0	n-pentyl	OH	5-ethyl-3-pyridyl
O         n-pentyl         OH         2-methoxy-3-pyridyl           O         n-pentyl         OH         4-methoxy-3-pyridyl           O         n-pentyl         OH         5-methoxy-3-pyridyl           O         n-pentyl         OH         6-methoxy-3-pyridyl           O         n-pentyl         OH         2-ethoxy-3-pyridyl           O         n-pentyl         OH         5-ethoxy-3-pyridyl           O         n-pentyl         OH         6-ethoxy-3-pyridyl           O         n-pentyl         OH         2-chloro-3-pyridyl           O         n-pentyl         OH         4-chloro-3-pyridyl           O         n-pentyl         OH         5-chloro-3-pyridyl           O         n-pentyl         OH         2-fluoro-3-pyridyl           O         n-pentyl         OH         4-fluoro-3-pyridyl           O         n-pentyl         OH         4-fluoro-3-pyridyl           O         n-pentyl         OH         5-fluoro-3-pyridyl           O         n-pentyl         OH         4-fluoro-3-pyridyl           O         n-pentyl         OH         5-fluoro-3-pyridyl           O         n-pentyl         OH         5-fluoro-3-pyridyl	0	n-pentyl	OH	6-ethyl-3-pyridyl
O         n-pentyl         OH         4-methoxy-3-pyridyl           O         n-pentyl         OH         5-methoxy-3-pyridyl           O         n-pentyl         OH         2-ethoxy-3-pyridyl           O         n-pentyl         OH         2-ethoxy-3-pyridyl           O         n-pentyl         OH         4-ethoxy-3-pyridyl           O         n-pentyl         OH         5-ethoxy-3-pyridyl           O         n-pentyl         OH         2-chloro-3-pyridyl           O         n-pentyl         OH         4-chloro-3-pyridyl           O         n-pentyl         OH         4-chloro-3-pyridyl           O         n-pentyl         OH         2-fluoro-3-pyridyl           O         n-pentyl         OH         4-fluoro-3-pyridyl	0	n-pentyl		
O         n-pentyl         OH         5-methoxy-3-pyridyl           O         n-pentyl         OH         6-methoxy-3-pyridyl           O         n-pentyl         OH         2-ethoxy-3-pyridyl           O         n-pentyl         OH         4-ethoxy-3-pyridyl           O         n-pentyl         OH         5-ethoxy-3-pyridyl           O         n-pentyl         OH         6-ethoxy-3-pyridyl           O         n-pentyl         OH         2-chloro-3-pyridyl           O         n-pentyl         OH         4-chloro-3-pyridyl           O         n-pentyl         OH         6-chloro-3-pyridyl           O         n-pentyl         OH         2-fluoro-3-pyridyl           O         n-pentyl         OH         4-fluoro-3-pyridyl           O         n-pentyl         OH         4-fluoro-3-pyridyl           O         n-pentyl         OH         5-fluoro-3-pyridyl           O         n-pentyl         OH         4-fluoro-3-pyridyl           O         n-pentyl         OH         5-fluoro-3-pyridyl           O         n-pentyl         OH         6-fluoro-3-pyridyl           O         n-pentyl         OH         6-fluoro-3-pyridyl	0	n-pentyl	OH	4-methoxy-3-pyridyl
O         n-pentyl         OH         6-methoxy-3-pyridyl           O         n-pentyl         OH         2-ethoxy-3-pyridyl           O         n-pentyl         OH         4-ethoxy-3-pyridyl           O         n-pentyl         OH         5-ethoxy-3-pyridyl           O         n-pentyl         OH         2-chloro-3-pyridyl           O         n-pentyl         OH         4-chloro-3-pyridyl           O         n-pentyl         OH         5-chloro-3-pyridyl           O         n-pentyl         OH         6-chloro-3-pyridyl           O         n-pentyl         OH         2-fluoro-3-pyridyl           O         n-pentyl         OH         2-fluoro-3-pyridyl           O         n-pentyl         OH         4-fluoro-3-pyridyl           O         n-pentyl         OH         4-dimethylamino-3-pyridyl           O         n-pentyl         OH         4-dimethylamino-3-pyridyl	0	n-pentyl	OH	
O         n-pentyl         OH         2-ethoxy-3-pyridyl           O         n-pentyl         OH         4-ethoxy-3-pyridyl           O         n-pentyl         OH         5-ethoxy-3-pyridyl           O         n-pentyl         OH         6-ethoxy-3-pyridyl           O         n-pentyl         OH         2-chloro-3-pyridyl           O         n-pentyl         OH         5-chloro-3-pyridyl           O         n-pentyl         OH         2-fluoro-3-pyridyl           O         n-pentyl         OH         4-fluoro-3-pyridyl           O         n-pentyl         OH         4-fluoro-3-pyridyl           O         n-pentyl         OH         4-fluoro-3-pyridyl           O         n-pentyl         OH         4-fluoro-3-pyridyl           O         n-pentyl         OH         5-fluoro-3-pyridyl           O         n-pentyl         OH         4-fluoro-3-pyridyl           O         n-pentyl         OH         5-fluoro-3-pyridyl           O         n-pentyl         OH         4-dimethylamino-3-pyridyl           O         n-pentyl         OH         4-dimethylamino-3-pyridyl           O         n-pentyl         OH         6-dimethylamino-3-pyridy	0	n-pentyl	OH	
O         n-pentyl         OH         4-ethoxy·3-pyridyl           O         n-pentyl         OH         5-ethoxy·3-pyridyl           O         n-pentyl         OH         6-ethoxy-3-pyridyl           O         n-pentyl         OH         2-chloro-3-pyridyl           O         n-pentyl         OH         4-chloro-3-pyridyl           O         n-pentyl         OH         6-chloro-3-pyridyl           O         n-pentyl         OH         2-fluoro-3-pyridyl           O         n-pentyl         OH         4-fluoro-3-pyridyl           O         n-pentyl         OH         5-fluoro-3-pyridyl           O         n-pentyl         OH         5-fluoro-3-pyridyl           O         n-pentyl         OH         6-fluoro-3-pyridyl           O         n-pentyl         OH         6-fluoro-3-pyridyl           O         n-pentyl         OH         6-fluoro-3-pyridyl           O         n-pentyl         OH         4-dimethylamino-3-pyridyl           O         n-pentyl         OH         4-dimethylamino-3-pyridyl           O         n-pentyl         OH         6-dimethylamino-3-pyridyl           O         n-pentyl         OH         6-dimethylamino-3	L		ОН	
O         n-pentyl         OH         5-ethoxy-3-pyridyl           O         n-pentyl         OH         6-ethoxy-3-pyridyl           O         n-pentyl         OH         2-chloro-3-pyridyl           O         n-pentyl         OH         4-chloro-3-pyridyl           O         n-pentyl         OH         5-chloro-3-pyridyl           O         n-pentyl         OH         2-fluoro-3-pyridyl           O         n-pentyl         OH         4-fluoro-3-pyridyl           O         n-pentyl         OH         5-fluoro-3-pyridyl           O         n-pentyl         OH         6-fluoro-3-pyridyl           O         n-pentyl         OH         6-fluoro-3-pyridyl           O         n-pentyl         OH         2-dimethylamino-3-pyridyl           O         n-pentyl         OH         4-dimethylamino-3-pyridyl           O         n-pentyl         OH         5-dimethylamino-3-pyridyl           O         n-pentyl         OH         6-dimethylamino-3-pyridyl           O         n-pentyl         OH         6-dimethylamino-3-pyridyl           O         n-pentyl         OH         3-(1-pyrrolidinyl)-3-pyridyl           O         n-pentyl         OH	0		OH	
O         n-pentyl         OH         6-ethoxy-3-pyridyl           O         n-pentyl         OH         2-chloro-3-pyridyl           O         n-pentyl         OH         4-chloro-3-pyridyl           O         n-pentyl         OH         5-chloro-3-pyridyl           O         n-pentyl         OH         2-fluoro-3-pyridyl           O         n-pentyl         OH         4-fluoro-3-pyridyl           O         n-pentyl         OH         5-fluoro-3-pyridyl           O         n-pentyl         OH         6-fluoro-3-pyridyl           O         n-pentyl         OH         6-fluoro-3-pyridyl           O         n-pentyl         OH         2-dimethylamino-3-pyridyl           O         n-pentyl         OH         4-dimethylamino-3-pyridyl           O         n-pentyl         OH         5-dimethylamino-3-pyridyl           O         n-pentyl         OH         6-dimethylamino-3-pyridyl           O         n-pentyl         OH         5-dimethylamino-3-pyridyl           O         n-pentyl         OH         6-dimethylamino-3-pyridyl           O         n-pentyl         OH         3-(1-pyrrolidinyl)-3-pyridyl           O         n-pentyl         OH <td>0</td> <td></td> <td>OH</td> <td></td>	0		OH	
O         n-pentyl         OH         2-chloro-3-pyridyl           O         n-pentyl         OH         4-chloro-3-pyridyl           O         n-pentyl         OH         5-chloro-3-pyridyl           O         n-pentyl         OH         6-chloro-3-pyridyl           O         n-pentyl         OH         2-fluoro-3-pyridyl           O         n-pentyl         OH         4-fluoro-3-pyridyl           O         n-pentyl         OH         5-fluoro-3-pyridyl           O         n-pentyl         OH         6-fluoro-3-pyridyl           O         n-pentyl         OH         2-dimethylamino-3-pyridyl           O         n-pentyl         OH         4-dimethylamino-3-pyridyl           O         n-pentyl         OH         5-dimethylamino-3-pyridyl           O         n-pentyl         OH         6-dimethylamino-3-pyridyl           O         n-pentyl         OH         5-dimethylamino-3-pyridyl           O         n-pentyl         OH         5-dimethylamino-3-pyridyl           O         n-pentyl         OH         2-(1-pyrrolidinyl)-3-pyridyl           O         n-pentyl         OH         3-(1-pyrrolidinyl)-3-pyridyl           O         n-pentyl	0	n-pentyl	OH	
O n-pentyl OH 4-chloro-3-pyridyl O n-pentyl OH 5-chloro-3-pyridyl O n-pentyl OH 6-chloro-3-pyridyl O n-pentyl OH 2-fluoro-3-pyridyl O n-pentyl OH 4-fluoro-3-pyridyl O n-pentyl OH 5-fluoro-3-pyridyl O n-pentyl OH 5-fluoro-3-pyridyl O n-pentyl OH 6-fluoro-3-pyridyl O n-pentyl OH 5-fluoro-3-pyridyl O n-pentyl OH 6-fluoro-3-pyridyl O n-pentyl OH 5-dimethylamino-3-pyridyl O n-pentyl OH 5-dimethylamino-3-pyridyl O n-pentyl OH 6-dimethylamino-3-pyridyl O n-pentyl OH 3-(1-pyrrolidinyl)-3-pyridyl O n-pentyl OH 3-(1-pyrrolidinyl)-3-pyridyl O n-pentyl OH 5-(1-pyrrolidinyl)-3-pyridyl O n-pentyl OH 6-(1-pyrrolidinyl)-3-pyridyl O n-pentyl OH 6-(1-pyrrolidinyl)-3-pyridyl O n-pentyl OH 2-piperidino-3-pyridyl O n-pentyl OH 4-piperidino-3-pyridyl O n-pentyl OH 5-piperidino-3-pyridyl O n-pentyl OH 6-piperidino-3-pyridyl O n-pentyl OH 5-morpholino-3-pyridyl O n-pentyl OH 6-morpholino-3-pyridyl O n-pentyl OH 5-morpholino-3-pyridyl		n-pentyl	OH	
O n-pentyl OH 6-chloro-3-pyridyl O n-pentyl OH 6-chloro-3-pyridyl O n-pentyl OH 2-fluoro-3-pyridyl O n-pentyl OH 4-fluoro-3-pyridyl O n-pentyl OH 5-fluoro-3-pyridyl O n-pentyl OH 5-fluoro-3-pyridyl O n-pentyl OH 6-fluoro-3-pyridyl O n-pentyl OH 2-dimethylamino-3-pyridyl O n-pentyl OH 4-dimethylamino-3-pyridyl O n-pentyl OH 5-dimethylamino-3-pyridyl O n-pentyl OH 6-dimethylamino-3-pyridyl O n-pentyl OH 5-dimethylamino-3-pyridyl O n-pentyl OH 3-(1-pyrrolidinyl)-3-pyridyl O n-pentyl OH 5-(1-pyrrolidinyl)-3-pyridyl O n-pentyl OH 6-(1-pyrrolidinyl)-3-pyridyl O n-pentyl OH 6-(1-pyrrolidinyl)-3-pyridyl O n-pentyl OH 2-piperidino-3-pyridyl O n-pentyl OH 5-piperidino-3-pyridyl O n-pentyl OH 5-piperidino-3-pyridyl O n-pentyl OH 6-piperidino-3-pyridyl O n-pentyl OH 5-morpholino-3-pyridyl O n-pentyl OH 4-morpholino-3-pyridyl O n-pentyl OH 5-morpholino-3-pyridyl O n-pentyl OH 5-morpholino-3-pyridyl O n-pentyl OH 6-morpholino-3-pyridyl O n-pentyl OH 5-hydroxy-3-pyridyl O n-pentyl OH 5-hydroxy-3-pyridyl	0	···············		
O n-pentyl OH 2-fluoro-3-pyridyl O n-pentyl OH 2-fluoro-3-pyridyl O n-pentyl OH 4-fluoro-3-pyridyl O n-pentyl OH 5-fluoro-3-pyridyl O n-pentyl OH 5-fluoro-3-pyridyl O n-pentyl OH 6-fluoro-3-pyridyl O n-pentyl OH 2-dimethylamino-3-pyridyl O n-pentyl OH 5-dimethylamino-3-pyridyl O n-pentyl OH 6-dimethylamino-3-pyridyl O n-pentyl OH 6-dimethylamino-3-pyridyl O n-pentyl OH 3-(1-pyrrolidinyl)-3-pyridyl O n-pentyl OH 3-(1-pyrrolidinyl)-3-pyridyl O n-pentyl OH 6-(1-pyrrolidinyl)-3-pyridyl O n-pentyl OH 6-(1-pyrrolidinyl)-3-pyridyl O n-pentyl OH 2-piperidino-3-pyridyl O n-pentyl OH 4-piperidino-3-pyridyl O n-pentyl OH 5-piperidino-3-pyridyl O n-pentyl OH 6-piperidino-3-pyridyl O n-pentyl OH 6-piperidino-3-pyridyl O n-pentyl OH 2-morpholino-3-pyridyl O n-pentyl OH 4-morpholino-3-pyridyl O n-pentyl OH 5-morpholino-3-pyridyl O n-pentyl OH 6-morpholino-3-pyridyl	0	n-pentyl	ОН	
O n-pentyl OH 2-fluoro-3-pyridyl O n-pentyl OH 4-fluoro-3-pyridyl O n-pentyl OH 5-fluoro-3-pyridyl O n-pentyl OH 6-fluoro-3-pyridyl O n-pentyl OH 2-dimethylamino-3-pyridyl O n-pentyl OH 4-dimethylamino-3-pyridyl O n-pentyl OH 5-dimethylamino-3-pyridyl O n-pentyl OH 6-dimethylamino-3-pyridyl O n-pentyl OH 6-dimethylamino-3-pyridyl O n-pentyl OH 3-(1-pyrrolidinyl)-3-pyridyl O n-pentyl OH 3-(1-pyrrolidinyl)-3-pyridyl O n-pentyl OH 6-(1-pyrrolidinyl)-3-pyridyl O n-pentyl OH 6-(1-pyrrolidinyl)-3-pyridyl O n-pentyl OH 2-piperidino-3-pyridyl O n-pentyl OH 4-piperidino-3-pyridyl O n-pentyl OH 5-piperidino-3-pyridyl O n-pentyl OH 6-piperidino-3-pyridyl O n-pentyl OH 6-piperidino-3-pyridyl O n-pentyl OH 2-morpholino-3-pyridyl O n-pentyl OH 4-morpholino-3-pyridyl O n-pentyl OH 5-morpholino-3-pyridyl O n-pentyl OH 6-morpholino-3-pyridyl O n-pentyl OH 5-hydroxy-3-pyridyl	0	n-pentyl	ОН	
O         n-pentyl         OH         4-fluoro-3-pyridyl           O         n-pentyl         OH         5-fluoro-3-pyridyl           O         n-pentyl         OH         6-fluoro-3-pyridyl           O         n-pentyl         OH         2-dimethylamino-3-pyridyl           O         n-pentyl         OH         4-dimethylamino-3-pyridyl           O         n-pentyl         OH         5-dimethylamino-3-pyridyl           O         n-pentyl         OH         6-dimethylamino-3-pyridyl           O         n-pentyl         OH         6-dimethylamino-3-pyridyl           O         n-pentyl         OH         2-(1-pyrrolidinyl)-3-pyridyl           O         n-pentyl         OH         5-(1-pyrrolidinyl)-3-pyridyl           O         n-pentyl         OH         6-(1-pyrrolidinyl)-3-pyridyl           O         n-pentyl         OH         2-piperidino-3-pyridyl           O         n-pentyl         OH         4-piperidino-3-pyridyl           O         n-pentyl         OH         5-piperidino-3-pyridyl           O         n-pentyl         OH         2-morpholino-3-pyridyl           O         n-pentyl         OH         4-morpholino-3-pyridyl           O <td< td=""><td>0</td><td>n-pentyl</td><td>OH</td><td></td></td<>	0	n-pentyl	OH	
O         n-pentyl         OH         5-fluoro-3-pyridyl           O         n-pentyl         OH         6-fluoro-3-pyridyl           O         n-pentyl         OH         2-dimethylamino-3-pyridyl           O         n-pentyl         OH         4-dimethylamino-3-pyridyl           O         n-pentyl         OH         5-dimethylamino-3-pyridyl           O         n-pentyl         OH         6-dimethylamino-3-pyridyl           O         n-pentyl         OH         2-(1-pyrrolidinyl)-3-pyridyl           O         n-pentyl         OH         5-(1-pyrrolidinyl)-3-pyridyl           O         n-pentyl         OH         6-(1-pyrrolidinyl)-3-pyridyl           O         n-pentyl         OH         6-(1-pyrrolidinyl)-3-pyridyl           O         n-pentyl         OH         2-piperidino-3-pyridyl           O         n-pentyl         OH         4-piperidino-3-pyridyl           O         n-pentyl         OH         5-piperidino-3-pyridyl           O         n-pentyl         OH         2-morpholino-3-pyridyl           O         n-pentyl         OH         4-morpholino-3-pyridyl           O         n-pentyl         OH         5-morpholino-3-pyridyl           O	0	n-pentyl	OH	
O         n-pentyl         OH         6-fluoro-3-pyridyl           O         n-pentyl         OH         2-dimethylamino-3-pyridyl           O         n-pentyl         OH         4-dimethylamino-3-pyridyl           O         n-pentyl         OH         5-dimethylamino-3-pyridyl           O         n-pentyl         OH         6-dimethylamino-3-pyridyl           O         n-pentyl         OH         2-(1-pyrrolidinyl)-3-pyridyl           O         n-pentyl         OH         3-(1-pyrrolidinyl)-3-pyridyl           O         n-pentyl         OH         6-(1-pyrrolidinyl)-3-pyridyl           O         n-pentyl         OH         2-piperidino-3-pyridyl           O         n-pentyl         OH         4-piperidino-3-pyridyl           O         n-pentyl         OH         5-piperidino-3-pyridyl           O         n-pentyl         OH         2-morpholino-3-pyridyl           O         n-pentyl         OH         4-morpholino-3-pyridyl           O         n-pentyl         OH         5-morpholino-3-pyridyl           O         n-pentyl         OH         6-morpholino-3-pyridyl           O         n-pentyl         OH         6-morpholino-3-pyridyl           O	0	n-pentyl	OH	
O n-pentyl OH 2-dimethylamino-3-pyridyl O n-pentyl OH 4-dimethylamino-3-pyridyl O n-pentyl OH 5-dimethylamino-3-pyridyl O n-pentyl OH 6-dimethylamino-3-pyridyl O n-pentyl OH 2-(1-pyrrolidinyl)-3-pyridyl O n-pentyl OH 3-(1-pyrrolidinyl)-3-pyridyl O n-pentyl OH 5-(1-pyrrolidinyl)-3-pyridyl O n-pentyl OH 6-(1-pyrrolidinyl)-3-pyridyl O n-pentyl OH 2-piperidino-3-pyridyl O n-pentyl OH 4-piperidino-3-pyridyl O n-pentyl OH 5-piperidino-3-pyridyl O n-pentyl OH 5-piperidino-3-pyridyl O n-pentyl OH 6-piperidino-3-pyridyl O n-pentyl OH 2-morpholino-3-pyridyl O n-pentyl OH 4-morpholino-3-pyridyl O n-pentyl OH 5-morpholino-3-pyridyl O n-pentyl OH 6-morpholino-3-pyridyl O n-pentyl OH 2-hydroxy-3-pyridyl O n-pentyl OH 5-hydroxy-3-pyridyl	0	n-pentyl	ОН	
O n-pentyl OH 4-dimethylamino-3-pyridyl O n-pentyl OH 5-dimethylamino-3-pyridyl O n-pentyl OH 6-dimethylamino-3-pyridyl O n-pentyl OH 2-(1-pyrrolidinyl)-3-pyridyl O n-pentyl OH 3-(1-pyrrolidinyl)-3-pyridyl O n-pentyl OH 5-(1-pyrrolidinyl)-3-pyridyl O n-pentyl OH 6-(1-pyrrolidinyl)-3-pyridyl O n-pentyl OH 2-piperidino-3-pyridyl O n-pentyl OH 4-piperidino-3-pyridyl O n-pentyl OH 5-piperidino-3-pyridyl O n-pentyl OH 5-piperidino-3-pyridyl O n-pentyl OH 6-piperidino-3-pyridyl O n-pentyl OH 2-morpholino-3-pyridyl O n-pentyl OH 4-morpholino-3-pyridyl O n-pentyl OH 5-morpholino-3-pyridyl O n-pentyl OH 5-morpholino-3-pyridyl O n-pentyl OH 5-morpholino-3-pyridyl O n-pentyl OH 6-morpholino-3-pyridyl O n-pentyl OH 6-morpholino-3-pyridyl O n-pentyl OH 6-morpholino-3-pyridyl O n-pentyl OH 6-morpholino-3-pyridyl O n-pentyl OH 5-hydroxy-3-pyridyl O n-pentyl OH 5-hydroxy-3-pyridyl O n-pentyl OH 5-hydroxy-3-pyridyl	О	n-pentyl	ОН	
O n-pentyl OH 5-dimethylamino-3-pyridyl O n-pentyl OH 6-dimethylamino-3-pyridyl O n-pentyl OH 2-(1-pyrrolidinyl)-3-pyridyl O n-pentyl OH 3-(1-pyrrolidinyl)-3-pyridyl O n-pentyl OH 5-(1-pyrrolidinyl)-3-pyridyl O n-pentyl OH 6-(1-pyrrolidinyl)-3-pyridyl O n-pentyl OH 2-piperidino-3-pyridyl O n-pentyl OH 4-piperidino-3-pyridyl O n-pentyl OH 5-piperidino-3-pyridyl O n-pentyl OH 6-piperidino-3-pyridyl O n-pentyl OH 6-piperidino-3-pyridyl O n-pentyl OH 2-morpholino-3-pyridyl O n-pentyl OH 4-morpholino-3-pyridyl O n-pentyl OH 5-morpholino-3-pyridyl O n-pentyl OH 6-morpholino-3-pyridyl O n-pentyl OH 6-morpholino-3-pyridyl O n-pentyl OH 6-morpholino-3-pyridyl O n-pentyl OH 6-morpholino-3-pyridyl O n-pentyl OH 2-hydroxy-3-pyridyl O n-pentyl OH 4-hydroxy-3-pyridyl O n-pentyl OH 5-hydroxy-3-pyridyl	0	n-pentyl	ОН	
O         n-pentyl         OH         6-dimethylamino-3-pyridyl           O         n-pentyl         OH         2-(1-pyrrolidinyl)-3-pyridyl           O         n-pentyl         OH         3-(1-pyrrolidinyl)-3-pyridyl           O         n-pentyl         OH         6-(1-pyrrolidinyl)-3-pyridyl           O         n-pentyl         OH         2-piperidino-3-pyridyl           O         n-pentyl         OH         4-piperidino-3-pyridyl           O         n-pentyl         OH         5-piperidino-3-pyridyl           O         n-pentyl         OH         2-morpholino-3-pyridyl           O         n-pentyl         OH         4-morpholino-3-pyridyl           O         n-pentyl         OH         5-morpholino-3-pyridyl           O         n-pentyl         OH         6-morpholino-3-pyridyl           O <td< td=""><td>0</td><td>n-pentyl</td><td>OH</td><td></td></td<>	0	n-pentyl	OH	
O         n-pentyl         OH         2-(1-pyrrolidinyl)-3-pyridyl           O         n-pentyl         OH         3-(1-pyrrolidinyl)-3-pyridyl           O         n-pentyl         OH         5-(1-pyrrolidinyl)-3-pyridyl           O         n-pentyl         OH         6-(1-pyrrolidinyl)-3-pyridyl           O         n-pentyl         OH         2-piperidino-3-pyridyl           O         n-pentyl         OH         4-piperidino-3-pyridyl           O         n-pentyl         OH         6-piperidino-3-pyridyl           O         n-pentyl         OH         2-morpholino-3-pyridyl           O         n-pentyl         OH         4-morpholino-3-pyridyl           O         n-pentyl         OH         5-morpholino-3-pyridyl           O         n-pentyl         OH         6-morpholino-3-pyridyl           O         n-pentyl         OH         2-hydroxy-3-pyridyl           O         n-pentyl         OH         4-hydroxy-3-pyridyl           O         n-pentyl         OH         5-hydroxy-3-pyridyl	0	n-pentyl	OH	
O         n-pentyl         OH         3-(1-pyrrolidinyl)-3-pyridyl           O         n-pentyl         OH         5-(1-pyrrolidinyl)-3-pyridyl           O         n-pentyl         OH         6-(1-pyrrolidinyl)-3-pyridyl           O         n-pentyl         OH         2-piperidino-3-pyridyl           O         n-pentyl         OH         5-piperidino-3-pyridyl           O         n-pentyl         OH         6-piperidino-3-pyridyl           O         n-pentyl         OH         2-morpholino-3-pyridyl           O         n-pentyl         OH         4-morpholino-3-pyridyl           O         n-pentyl         OH         5-morpholino-3-pyridyl           O         n-pentyl         OH         6-morpholino-3-pyridyl           O         n-pentyl         OH         2-hydroxy-3-pyridyl           O         n-pentyl         OH         4-hydroxy-3-pyridyl           O         n-pentyl         OH         5-hydroxy-3-pyridyl	0	n-pentyl	ОН	
O         n-pentyl         OH         5-(1-pyrrolidinyl)-3-pyridyl           O         n-pentyl         OH         6-(1-pyrrolidinyl)-3-pyridyl           O         n-pentyl         OH         2-piperidino-3-pyridyl           O         n-pentyl         OH         4-piperidino-3-pyridyl           O         n-pentyl         OH         5-piperidino-3-pyridyl           O         n-pentyl         OH         2-morpholino-3-pyridyl           O         n-pentyl         OH         4-morpholino-3-pyridyl           O         n-pentyl         OH         5-morpholino-3-pyridyl           O         n-pentyl         OH         6-morpholino-3-pyridyl           O         n-pentyl         OH         2-hydroxy-3-pyridyl           O         n-pentyl         OH         4-hydroxy-3-pyridyl           O         n-pentyl         OH         5-hydroxy-3-pyridyl	0	n-pentyl	ОН	
O         n-pentyl         OH         6-(1-pyrrolidinyl)-3-pyridyl           O         n-pentyl         OH         2-piperidino-3-pyridyl           O         n-pentyl         OH         4-piperidino-3-pyridyl           O         n-pentyl         OH         5-piperidino-3-pyridyl           O         n-pentyl         OH         2-morpholino-3-pyridyl           O         n-pentyl         OH         4-morpholino-3-pyridyl           O         n-pentyl         OH         5-morpholino-3-pyridyl           O         n-pentyl         OH         6-morpholino-3-pyridyl           O         n-pentyl         OH         2-hydroxy-3-pyridyl           O         n-pentyl         OH         4-hydroxy-3-pyridyl           O         n-pentyl         OH         5-hydroxy-3-pyridyl	0	n-pentyl		
O n-pentyl OH 2-piperidino-3-pyridyl O n-pentyl OH 4-piperidino-3-pyridyl O n-pentyl OH 5-piperidino-3-pyridyl O n-pentyl OH 6-piperidino-3-pyridyl O n-pentyl OH 2-morpholino-3-pyridyl O n-pentyl OH 4-morpholino-3-pyridyl O n-pentyl OH 5-morpholino-3-pyridyl O n-pentyl OH 6-morpholino-3-pyridyl O n-pentyl OH 6-morpholino-3-pyridyl O n-pentyl OH 6-morpholino-3-pyridyl O n-pentyl OH 2-hydroxy-3-pyridyl O n-pentyl OH 4-hydroxy-3-pyridyl O n-pentyl OH 5-hydroxy-3-pyridyl O n-pentyl OH 5-hydroxy-3-pyridyl	0	n-pentyl	*******	
O         n-pentyl         OH         4-piperidino-3-pyridyl           O         n-pentyl         OH         5-piperidino-3-pyridyl           O         n-pentyl         OH         6-piperidino-3-pyridyl           O         n-pentyl         OH         2-morpholino-3-pyridyl           O         n-pentyl         OH         5-morpholino-3-pyridyl           O         n-pentyl         OH         6-morpholino-3-pyridyl           O         n-pentyl         OH         2-hydroxy-3-pyridyl           O         n-pentyl         OH         4-hydroxy-3-pyridyl           O         n-pentyl         OH         5-hydroxy-3-pyridyl	0	n-pentyl	ОH	
O n-pentyl OH 5-piperidino-3-pyridyl O n-pentyl OH 6-piperidino-3-pyridyl O n-pentyl OH 2-morpholino-3-pyridyl O n-pentyl OH 4-morpholino-3-pyridyl O n-pentyl OH 5-morpholino-3-pyridyl O n-pentyl OH 6-morpholino-3-pyridyl O n-pentyl OH 2-hydroxy-3-pyridyl O n-pentyl OH 4-hydroxy-3-pyridyl O n-pentyl OH 5-hydroxy-3-pyridyl O n-pentyl OH 5-hydroxy-3-pyridyl	0	~~~	ОН	
O n-pentyl OH 6-piperidino-3-pyridyl O n-pentyl OH 2-morpholino-3-pyridyl O n-pentyl OH 4-morpholino-3-pyridyl O n-pentyl OH 5-morpholino-3-pyridyl O n-pentyl OH 6-morpholino-3-pyridyl O n-pentyl OH 2-hydroxy-3-pyridyl O n-pentyl OH 4-hydroxy-3-pyridyl O n-pentyl OH 5-hydroxy-3-pyridyl O n-pentyl OH 5-hydroxy-3-pyridyl	0	n-pentyl	ОН	
O         n-pentyl         OH         2-morpholino-3-pyridyl           O         n-pentyl         OH         4-morpholino-3-pyridyl           O         n-pentyl         OH         5-morpholino-3-pyridyl           O         n-pentyl         OH         6-morpholino-3-pyridyl           O         n-pentyl         OH         2-hydroxy-3-pyridyl           O         n-pentyl         OH         4-hydroxy-3-pyridyl           O         n-pentyl         OH         5-hydroxy-3-pyridyl	0			
O         n-pentyl         OH         4-morpholino-3-pyridyl           O         n-pentyl         OH         5-morpholino-3-pyridyl           O         n-pentyl         OH         6-morpholino-3-pyridyl           O         n-pentyl         OH         2-hydroxy-3-pyridyl           O         n-pentyl         OH         4-hydroxy-3-pyridyl           O         n-pentyl         OH         5-hydroxy-3-pyridyl	0	n-pentyl	OH	
O         n-pentyl         OH         5-morpholino-3-pyridyl           O         n-pentyl         OH         6-morpholino-3-pyridyl           O         n-pentyl         OH         2-hydroxy-3-pyridyl           O         n-pentyl         OH         4-hydroxy-3-pyridyl           O         n-pentyl         OH         5-hydroxy-3-pyridyl	0			
O         n-pentyl         OH         6-morpholino-3-pyridyl           O         n-pentyl         OH         2-hydroxy-3-pyridyl           O         n-pentyl         OH         4-hydroxy-3-pyridyl           O         n-pentyl         OH         5-hydroxy-3-pyridyl	0			
O         n-pentyl         OH         2-hydroxy-3-pyridyl           O         n-pentyl         OH         4-hydroxy-3-pyridyl           O         n-pentyl         OH         5-hydroxy-3-pyridyl	O			
O n-pentyl OH 4-hydroxy-3-pyridyl O n-pentyl OH 5-hydroxy-3-pyridyl	0			
O n-pentyl OH 5-hydroxy-3-pyridyl				
7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7				
o ajatonj-o-pytinji				
		1 2		

0	n-pentyl	OH	2-mercapto-3-pyridyl
0	n-pentyl	ОН	4-mercapto-3-pyridyl
0	n-pentyl	OH	5-mercapto-3-pyridyl
0	n-pentyl	OH	6-mercapto-3-pyridyl
0	n-pentyl	OH	2-methylthio-3-pyridyl
0	n-pentyl	OH	4-methylthio-3-pyridyl
0	n-pentyl	OH	5-methylthio-3-pyridyl
0	n-pentyl	OH	6-methylthio-3-pyridyl
0	n-pentyl	OH	2,6-dimethyl-3-pyridyl
0	n-pentyl	OH	5,6-dimethyl-3-pyridyl
0	n-pentyl	OH	2,6-diethyl-3-pyridyl
0	n-pentyl	ОН	5,6-diethyl-3-pyridyl
0	n-pentyl	ОН	2,6-dimethoxy-3-pyridyl
0	n-pentyl	ОН	5,6-dimethoxy-3-pyridyl
0	n-pentyl	OH	2,6-diethoxy-3-pyridyl
0	n-pentyl	OH	5,6-diethoxy-3-pyridyl
0	n-pentyl	OH	2,6-dichloro-3-pyridyl
0	n-pentyl	OH	5,6-dichloro-3-pyridyl
0	n-pentyl	OH	5-chloro-6-methoxy-3-pyridy1
0	n-pentyl	OH	5-chloro-6-ethoxy-3-pyridyl
0	n-pentyl	OH	2-chloro-6-methyl-3-pyridyl
0	n-pentyl	ОН	6-chloro-2-methyl-3-pyridyl
0	n-pentyl	OH	2-methyl-4-pyridyl
0	n-pentyl	ОН	2-ethyl-4-pyridyl
0	n-pentyl	OH	2-methoxy-4-pyridyl
O	n-pentyl	ОН	2-ethoxy-4-pyridyl
0	n-pentyl	OH	2-chloro-4-pyridyl
0	n-pentyl	OH	2-dimethylamino-4-pyridyl
0	n-pentyl	ОН	2-(1-pyrrolidinyl)-4-pyridyl
0	n-pentyl	ОН	2-piperidino-4-pyridyl
0	n-pentyl	OH	2-morpholino-4-pyridyl
0	n-pentyl	OH	2-methylthio-4-pyridyl
0	n-pentyl	ОН	2-pyrazinyl
0	n-pentyl	ОН	5-methyl-2-pyrazinyl
0	n-pentyl	ОН	5-ethyl-2-pyrazinyl
0	n-pentyl	ОН	5-methoxy-2-pyrazinyl
0	n-pentyl	ОН	5-ethoxy-2-pyrazinyl
0	n-pentyl	OH	5-chloro-2-pyrazinyl
0	n-pentyl	ОН	6-methyl-2-pyrazinyl
0	n-pentyl	OH	6-methoxy-2-pyrazinyl
o	n-pentyl	OH	6-chloro-2-pyrazinyl
	Parrajr	V+1	o-cinoro-z-pyrazinyi

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0 0 0	n-pentyl n-pentyl	R <sup>2</sup> OCOOMe	Y
0		OCOOMe.	
0	l n-pentyl		2-pyridyl
		OCOOMe	3-pyridyl
1 0	n-pentyl	OCOOMe	4-pyridyl
	n-pentyl	OCOOMe	2-methyl-3-pyridyl
0	n-pentyl	OCOOMe	4-methyl-3-pyridyl
0	n-pentyl	OCOOMe	5-methyl-3-pyridyl
O	n-pentyl	OCOOMe	6-methyl-3-pyridyl
0	n-pentyl	OCOOMe	2-ethyl-3-pyridyl
0	n-pentyl	OCOOMe	4-ethyl-3-pyridyl
0	n-pentyl	OCOOMe	5-ethyl-3-pyridyl
0	n-pentyl	OCOOMe	6-ethyl-3-pyridyl
0	n-pentyl	OCOOMe	2-methoxy-3-pyridyl
0	n-pentyl	OCOOMe	4-methoxy-3-pyridyl
0	n-pentyl	OCOOMe	5-methoxy-3-pyridyl
0	n-pentyl	OCOOMe	6-methoxy-3-pyridyl
0	n-pentyl	OCOOMe	2-ethoxy-3-pyridyl
0	n-pentyl	OCOOMe	4-ethoxy-3-pyridyl
0	n-pentyl	OCOOMe	5-ethoxy-3-pyridyl
0	n-pentyl	OCOOMe	6-ethoxy-3-pyridyl
0	n-pentyl	OCOOMe	2-chloro-3-pyridyl
0	n-pentyl	OCOOMe	4-chloro-3-pyridyl
0	n-pentyl	OCOOMe	5-chloro-3-pyridyl
0	n-pentyl	OCOOMe	6-chloro-3-pyridyl
0	n-pentyl	OCOOMe	2-fluoro-3-pyridyl
0	n-pentyl	OCOOMe	4-fluoro-3-pyridyl
0	n-pentyl	OCOOMe	5-fluoro-3-pyridyl
0	n-pentyl	OCOOMe	6-fluoro-3-pyridyl
0	n-pentyl	OCOOMe	2-dimethylamino-3-pyridyl
0	n-pentyl	OCOOMe	4-dimethylamino-3-pyridyl
0	n-pentyl	OCOOMe	5-dimethylamino-3-pyridyl
0	n-pentyl	OCOOMe	6-dimethylamino-3-pyridyl
0	n-pentyl	OCOOMe	2-(1-pyrrolidinyl)-3-pyridyl
0	n-pentyl	ОСООМе	3-(1-pyrrolidinyl)-3-pyridyl
0	n-pentyl	OCOOMe	5-(1-pyrrolidinyl)-3-pyridyl
0	n-pentyl	OCOOMe	6-(1-pyrrolidinyl)-3-pyridyl
0	n-pentyl	OCOOMe	2-piperidino-3-pyridyl
0	n-pentyl	OCOOMe	4-piperidino-3-pyridyl
O.	n-pentyl	OCOOMe	5-piperidino-3-pyridyl
0	n-pentyl	OCOOMe	6-piperidino-3-pyridyl
0	n-pentyl	OCOOMe	2-morpholino-3-pyridyl
0	n-pentyl	OCOOMe	4-morpholino-3-pyridyl
0	n-pentyl	OCOOMe	5-morpholino-3-pyridyl
0	n-pentyl	OCOOMe	6-morpholino-3-pyridyl
0	n-pentyl	OCOOMe	2-hydroxy-3-pyridyl
0	n-pentyl	OCOOMe	
0	n-pentyl	OCOOMe	4-hydroxy-3-pyridyl
$\frac{\circ}{\circ}$	n-pentyl	OCOOMe	5-hydroxy-3-pyridyl
<u> </u>	I m-henryi	OCOOMe	6-hydroxy-3-pyridyl

0	n-pentyl	OCOOMe	2-mercapto-3-pyridyl
0	n-pentyl	OCOOMe	4-mercapto-3-pyridyl
0	n-pentyl	OCOOMe	5-mercapto-3-pyridyl
0	n-pentyl	OCOOMe	6-mercapto-3-pyridyl
0	n-pentyl	OCOOMe	2-methylthio-3-pyridyl
Ó	n-pentyl	OCOOMe	4-methylthio-3-pyridyl
0	n-pentyl	OCOOMe	5-methylthio-3-pyridyl
0	n-pentyl	OCOOMe	6-methylthio-3-pyridyl
0	n-pentyl	OCOOMe	2,6-dimethyl-3-pyridyl
O	n-pentyl	OCOOMe	5,6-dimethyl-3-pyridyl
0	n-pentyl	OCOOMe	2,6-diethyl-3-pyridyl
0	n-pentyl	OCOOMe	5,6-diethyl-3-pyridyl
0	n-pentyl	OCOOMe	2,6-dimethoxy-3-pyridyl
0	n-pentyl	OCOOMe	5,6-dimethoxy-3-pyridyl
0	n-pentyl	OCOOMe	2,6-diethoxy-3-pyridyl
0	n-pentyl	OCOOMe	5,6-diethoxy-3-pyridyl
0	n-pentyl	OCOOMe	2,6-dichloro-3-pyridyl
0	n-pentyl	OCOOMe	5,6-dichloro-3-pyridyl
0	n-pentyl	OCOOMe	5-chloro-6-methoxy-3-pyridyl
0	n-pentyl	OCOOMe	5-chloro-6-ethoxy-3-pyridyl
0	n-pentyl	OCOOMe	2-chloro-6-methyl-3-pyridyl
0	n-pentyl	OCOOMe	6-chloro-2-methyl-3-pyridyl
0	n-pentyl	OCOOMe	2-methyl-4-pyridyl
0	n-pentyl	OCOOMe	2-ethyl-4-pyridyl
0	n-pentyl	OCOOMe	2-methoxy-4-pyridyl
0	n-pentyl	OCOOMe	2-ethoxy-4-pyridyl
0	n-pentyl	OCOOMe	2-chloro-4-pyridyl
0	n-pentyl	OCOOMe	2-dimethylamino-4-pyridyl
0	n-pentyl	OCOOMe	2-(1-pyrrolidinyl)-4-pyridyl
0	n-pentyl	OCOOMe	2-piperidino-4-pyridyl
0	n-pentyl	OCOOMe	2-morpholino-4-pyridyl
0	n-pentyl	OCOOMe	2-methylthio-4-pyridyl
0	n-pentyl	OCOOMe	2-pyrazinyl
0	n-pentyl	OCOOMe	5-methyl-2-pyrazinyl
0	n-pentyl	OCOOMe	5-ethyl-2-pyrazinyl
0	n-pentyl	OCOOMe	5-methoxy-2-pyrazinyl
0	n-pentyl	OCOOMe	5-ethoxy-2-pyrazinyl
0	n-pentyl	OCOOMe	5-chloro-2-pyrazinyl
0	n-pentyl	OCOOMe	6-methyl-2-pyrazinyl
0	n-pentyl	OCOOMe	6-methoxy-2-pyrazinyl
0	n-pentyl	OCOOMe	6-chloro-2-pyrazinyl

Х	R'	R <sup>2</sup>	Y
0	n-pentyl	OCOOEt	2-pyridyl
0	n-pentyl	OCOOEt	3-pyridyl
0	n-pentyl	OCOOEt	4-pyridyl
0	n-pentyl	OCOOEt	2-methyl-3-pyridyl
0	n-pentyl	OCOOEt	4-methyl-3-pyridyl
0	n-pentyl	OCOOEt	5-methyl-3-pyridyl
0	n-pentyl	OCOOEt	6-methyl-3-pyridyl
0	n-pentyl	OCOOEt	2-ethyl-3-pyridyl
0	n-pentyl	OCOOEt	4-ethyl-3-pyridyl
0	n-pentyl	OCOOEt	5-ethyl-3-pyridyl
0	n-pentyl	OCOOEt	6-ethyl-3-pyridyl
O	n-pentyl	OCOOEt	2-methoxy-3-pyridyl
0	n-pentyl	OCOOEt	4-methoxy-3-pyridyl
0	n-pentyl	OCOOEt	5-methoxy-3-pyridyl
0	n-pentyl	OCOOEt	6-methoxy-3-pyridyl
O	n-pentyl	OCOOEt	2-ethoxy-3-pyridyl
0	n-pentyl	OCOOEt	4-ethoxy-3-pyridyl
0	n-pentyl	OCOOEt	5-ethoxy-3-pyridyl
Q	n-pentyl	OCOOEt	6-ethoxy-3-pyridyl
0	n-pentyl	OCOOEt	2-chloro-3-pyridyl
0	n-pentyl	OCOOEt	4-chloro-3-pyridyl
0	n-pentyl	OCOOEt	5-chloro-3-pyridyl
0	n-pentyl	OCOOEt	6-chloro-3-pyridyl
O	n-pentyl	OCOOEt	2-fluoro-3-pyridyl
ō	n-pentyl	OCOOEt	4-fluoro-3-pyridyl
0	n-pentyl	OCOOEt	5-fluoro-3-pyridyl
0	n-pentyl	OCOOEt	6-fluoro-3-pyridyl
0	n-pentyl	OCOOEt	2-dimethylamino-3-pyridyl
0	n-pentyl	OCOOEt	4-dimethylamino-3-pyridyl
0	n-pentyl	OCOOEt	5-dimethylamino-3-pyridyl
0	n-pentyl	OCOOEt	6-dimethylamino-3-pyridyl
Ö	n-pentyl	OCOOEt	2-(1-pyrrolidinyl)-3-pyridyl
0	n-pentyl	OCOOEt	3-(1-pyrrolidinyl)-3-pyridyl
0	n-pentyl	OCOOEt	5-(1-pyrrolidinyl)-3-pyridyl
ŏ l	n-pentyl	OCOOEt	6-(1-pyrrolidinyl)-3-pyridyl
Ö	n-pentyl	OCOOEt	2-piperidino-3-pyridyl
0	n-pentyl	OCOOEt	4-piperidino-3-pyridyl
0	n-pentyl	OCOOEt	5-piperidino-8-pyridyl
0	n-pentyl	OCOOEt	6-piperidino-3-pyridyl
0	n-pentyl	OCOOEt	2-morpholino-3-pyridyl
Ö	n-pentyl	OCOOEt	4-morpholino-3-pyridyl
0	n-pentyl	OCOOEt	
0	n-pentyl	OCOOEt	5-morpholino-3-pyridyl 6-morpholino-3-pyridyl
0	n-pentyl	OCOOEt	
0			2-hydroxy-3-pyridyl
0	n-pentyl	OCOORt	4-hydroxy-3-pyridyl
0	n-pentyl	OCOOEt	5-hydroxy-3-pyridyl
<u></u>	n-pentyl	OCOOEt	6-hydroxy-3-pyridyl

0	n-pentyl	OCOOEt	2-mercapto-3-pyridyl
O	n-pentyl	OCOOEt	4-mercapto-3-pyridyl
0	n-pentyl	OCOOEt	5-mercapto-3-pyridyl
0	n-pentyl	OCOOEt	6-mercapto-3-pyridyl
0	n-pentyl	OCOOEt	2-methylthio-3-pyridyl
0	n-pentyl	OCOOEt	4-methylthio-3-pyridyl
0	n-pentyl	OCOOEt	5-methylthio-3-pyridyl
0	n-pentyl	OCOOEt	6-methylthio-3-pyridyl
0	n-pentyl	OCOOEt	2,6-dimethyl-3-pyridyl
0	n-pentyl	OCOOEt	5,6-dimethyl-3-pyridyl
0	n-pentyl	OCOOEt	2,6-diethyl-3-pyridyl
0	n-pentyl	OCOOEt	5,6-diethyl-3-pyridyl
0	n-pentyl	OCOOEt	2,6-dimethoxy-3-pyridyl
0	n-pentyl	OCOOEt	5,6-dimethoxy-3-pyridyl
0	n-pentyl	OCOOEt	2,6-diethoxy-3-pyridyl
0	n-pentyl	OCOOEt	5,6-diethoxy-3-pyridyl
0	n-pentyl	OCOOEt	2,6-dichloro-3-pyridyl
0	n-pentyl	OCOOEt	5,6-dichloro-3-pyridyl
0	n-pentyl	OCOOEt	5-chloro-6-methoxy-3-pyridyl
0	n-pentyl	OCOOEt	5-chloro-6-ethoxy-3-pyridyl
0	n-pentyl	OCOOEt	2-chloro-6-methyl-3-pyridyl
0	n-pentyl	OCOOEt	6-chloro-2-methyl-3-pyridyl
0	n-pentyl	OCOOEt	2-methyl-4-pyridyl
0	n-pentyl	OCOOEt	2-ethyl-4-pyridyl
0	n-pentyl	OCOOEt	2-methoxy-4-pyridyl
0	n-pentyl	OCOOEt	2-ethoxy-4-pyridyl
0	n-pentyl	OCOOEt	2-chloro-4-pyridyl
0	n-pentyl	OCOOEt	2-dimethylamino-4-pyridyl
О	n-pentyl	OCOOEt	2-(1-pyrrolidinyl)-4-pyridyl
0	n-pentyl	OCOOEt	2-piperidino-4-pyridyl
0	n-pentyl	OCOOEt	2-morpholino-4-pyridyl
0	n-pentyl	OCOOEt	2-methylthio-4-pyridyl
Ç	n-pentyl	OCOOEt	2-pyrazinyl
0	n-pentyl	OCOOEt	5-methyl-2-pyrazinyl
0	n-pentyl	OCOOEt	5-ethyl-2-pyrazinyl
0	n-pentyl	OCOOEt	5-methoxy-2-pyrazinyl
0	n-pentyl	OCOOEt	5-ethoxy-2-pyrazinyl
0	n-pentyl	OCOOEt	5-chloro-2-pyrazinyl
0	n-pentyl	OCOOEt	6-methyl-2-pyrazinyl
0	n-pentyl	OCOOEt	6-methoxy-2-pyrazinyl
0	n-pentyl	OCOOEt	6-chloro-2-pyrazinyl
			F)

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X	$R_1$	$R_2$	Y
S	propyl	OH	2-pyridyl
S	propyl	OH	3-pyridyl
S	propyl	OH	4-pyridyl
S	propyl	OH	2-methyl-3-pyridyl
s	propyl	OH	4-methyl-3-pyridyl
S	propyl	OH	5-methyl-3-pyridyl
S	propyl	ОН	6-methyl-3-pyridyl
S	propyl	ОН	2-ethyl-3-pyridyl
S	propyl	OH	4-ethyl-3-pyridyl
S	propyl	OH	5-ethyl-3-pyridyl
S	propyl	OH	6-ethyl-3-pyridyl
S	propyl	ОН	2-methoxy-3-pyridyl
S	propyl	OH	4-methoxy-3-pyridyl
S	propyl	ОН	5-methoxy-3-pyridyl
S	propyl	ОН	6-methoxy-3-pyridyl
S	propyl	OH	2-ethoxy-3-pyridyl
S	propyl	ОН	4-ethoxy-3-pyridyl
S	propyl	OH	5-ethoxy-3-pyridyl
S	propyl	OH	6-ethoxy-3-pyridyl
S	propyl	ОН	2-chloro-3-pyridyl
S	propyl	OH	4-chloro-3-pyridyl
S	propyl	ОН	5-chloro-3-pyridyl
S	propyl	OH	6-chloro-3-pyridyl
S	propyl	OH	2-fluoro-3-pyridyl
S	propyl	OH	4-fluoro-3-pyridyl
S	propyl	OH	5-fluoro-3-pyridyl
S	propyl	OH	6-fluoro-3-pyridyl
S	propyl	ОН	2-dimethylamino-3-pyridyl
S	propyl	OH	4-dimethylamino-3-pyridyl
S	propyl	OH	5-dimethylamino-3-pyridyl
S	propyl	OH	6-dimethylamino-3-pyridyl
S	propyl	ОН	2-(1-pyrrolidinyl)-3-pyridyl
S	propyl	ОН	3-(1-pyrrolidinyl)-3-pyridyl
S	propyl	OH	5-(1-pyrrolidinyl)-3-pyridyl
S	propyl	ОН	6-(1-pyrrolidinyl)-3-pyridyl
S	propyl	ОН	2-piperidino-3-pyridyl
S	propyl	OH	4-piperidino-3-pyridyl
S	propyl	OH	5-piperidino-3-pyridyl
S	propyl	OH	6-piperidino-3-pyridyl
S	propyl	OH	2-morpholino-3-pyridyl
S	propyl	ОН	4-morpholino-3-pyridyl
S	propyl	OII	5-morpholino-3-pyridyl
S	propyl	ОН	6-morpholino-3-pyridyl
S	propyl	OH	2-hydroxy-3-pyridyl
S	propyl	OH	4-hydroxy-3-pyridyl
S	propyl	OH	5-hydroxy-3-pyridyl
S	propyl	ОН	6-hydroxy-3-pyridyl

S	propyl	ОН	2-mercapto-3-pyridyl
S	propyl	OH	4-mercapto-3-pyridyl
S	propyl	ОН	5-mercapto-3-pyridyl
S	propyl	OH	6-mercapto-3-pyridyl
S	propyl	OH	2-methylthio-3-pyridyl
S	propyl	OH	4-methylthio-3-pyridyl
S	propyl	OH	5-methylthio-3-pyridyl
S	propyl	ОН	6-methylthio-3-pyridyl
S	propyl	OH	2,6-dimethyl-3-pyridyl
S	propyl	ОН	5,6-dimethyl-3-pyridyl
S	propyl	OH	2,6-diethyl-3-pyridyl
S	propyl	ОН	5,6-diethyl-3-pyridyl
S	propyl	OH	2,6-dimethoxy-3-pyridyl
S	propyl	OH	5,6-dimethoxy-3-pyridyl
S	propyl	OH	2,6-diethoxy-3-pyridyl
S	propyl	OH	5,6-diethoxy-3-pyridyl
S	propyl	ОН	2,6-dichloro-3-pyridyl
S	propyl	OH	5,6-dichloro-3-pyridyl
S	propyl	ОН	5-chloro-6-methoxy-3-pyrldyl
S	propyl	ОН	5-chloro-6-ethoxy-3-pyridyl
S	propyl	ОН	2-chloro-6-methyl-3-pyridyl
S	propyl	OH	6-chloro-2-methyl-3-pyridyl
S	propyl	OH	2-methyl-4-pyridyl
S	propyl	OH	2-ethyl-4-pyridyl
S	propyl	OH	2-methoxy-4-pyridyl
S	propyl	ОН	2-ethoxy-4-pyridyl
S	propyl	OH	2-chloro-4-pyridyl
S	propyl	ОН	2-dimethylamino-4-pyridyl
S	propyl	ОН	2-(1-pyrrolidinyl)-4-pyridyl
S	propyl	OH	2-piperidino-4-pyridyl
S	propyl	OH	2-morpholino-4-pyridyl
S	propyl	OH	2-methylthio-4-pyridyl
S	propyl	ОН	2-pyrazinyl
S	propyl	ОН	5-methyl-2-pyrazinyl
S	propyl	OH	5-ethyl-2-pyrazinyl
S	propyl	ОН	5-methoxy-2-pyrazinyl
S	propyl	ОН	5-ethoxy-2-pyrazinyl
S	propyl	OH	5-chloro-2-pyrazinyl
S	propyl	OН	6-methyl-2-pyrazinyl
S	propyl	OH	6-methoxy-2-pyrazinyl
S	propyl	OH	6-chloro-2-pyrazinyl
1			pj x x x x x y x

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	T	T	
X	R <sub>1</sub>	R <sub>2</sub>	Y
S	propyl	OCOOMe	2-pyridyl
S	propyl	OCOOMe	3-pyridyl
S	propyl	OCOOMe	4-pyridyl
S	propyl	OCOOMe	2-methyl-3-pyridyl
S	propyl	ОСООМе	4-methyl-3-pyridyl
S	propyl	ОСООМе	5-methyl-3-pyridyl
S	propyl	OCOOMe	6-methyl-3-pyridyl
S	propyl	OCOOMe	2-ethyl-3-pyridyl
S	propyl	OCOOMe	4-ethyl-3-pyridyl
S	propyl	OCOOMe	5-ethyl-3-pyridyl
S	propyl	OCOOMe	6-ethyl-3-pyridyl
S	propyl	OCOOMe	2-methoxy-3-pyridyl
S	propyl	OCOOMe	4-methoxy-3-pyridyl
S	propyl	OCOOMe	5-methoxy-3-pyridyl
S	propyl	OCOOMe	6-methoxy-3-pyridyl
S	propyl	OCOOMe	2-ethoxy-3-pyridyl
S	propyl	OCOOMe	4-ethoxy-3-pyridyl
S	propyl	OCOOMe	5-ethoxy-3-pyridyl
S	propyl	OCOOMe	6-ethoxy-3-pyridyl
S	propyl	OCOOMe	2-chloro-3-pyridyl
S	propyl	OCOOMe	4-chloro-3-pyridyl
S	propyl	OCOOMe	5-chloro-3-pyridyl
S	propyl	OCOOMe	6-chloro-3-pyridyl
S	propyl	OCOOMe	2-fluoro-3-pyridyl
S	propyl	OCOOMe	4-fluoro-3-pyridyl
S	propyl	OCOOMe	5-fluoro-3-pyridyl
s	propyl	OCOOMe	6-fluoro-3-pyridyl
S	propyl	OCOOMe	2-dimethylamino-3-pyridyl
S	propyl	OCOOMe OCOOMe	4-dimethylamino-3-pyridyl
S		OCOOMe	5-dimethylamino-3-pyridyl
S	propyl	OCOOMe OCOOMe	
S	propyl	OCOOMe OCOOMe	6-dimethylamino-3-pyridyl
S	propyl		2-(1-pyrrolidinyl)-3-pyridyl
	propyl	OCOOMe	3-(1-pyrrolidinyl)-3-pyridyl
S	propyl	OCOOMe	5-(1-pyrrolidinyl)-3-pyridyl
S	propyl	OCOOMe	6-(1-pyrrolidinyl)-3-pyridyl
S	propyl	OCOOMe	2-piperidino-3-pyridyl
S	propyl	OCOOMe	4-piperidino-3-pyridyl
S	propyl	OCOOMe	5-piperidino-3-pyridyl
S	propyl	OCOOMe	6-piperidino-3-pyridyl
S	propyl	OCOOMe	2-morpholino-3-pyridyl
S	propyl	OCOOMe	4-morpholino-3-pyridyl
S	propyl	OCOOMe	5-morpholino-3-pyridyl
S	propyl	OCOOMe	6-morpholino-3-pyridyl
S	propyl	OCOOMe	2-hydroxy-3-pyridyl
S	propyl	OCOOMe	4-hydroxy-3-pyridyl
S	propyl	OCOOMe	5-hydroxy-3-pyridyl
S	propyl	OCOOMe	6-hydroxy-3-pyridyl
	I F J		1 PJ

S	propyl	OCOOMe	2-mercapto-3-pyridyl
S	propyl	OCOOMe	4-mercapto-3-pyridyl
S	propyl	OCOOMe	5-mercapto-3-pyridyl
S	propyl	OCOOMe	6-mercapto-3-pyridyl
S	propyl	OCOOMe	2-methylthio-3-pyridyl
S	propyl	OCOOMe	4-methylthio-3-pyridyl
S	propyl	OCOOMe	5-methylthio-3-pyridyl
S	propyl	OCOOMe	6-methylthio-3-pyridyl
S	propyl	OCOOMe	2,6-dimethyl-3-pyridyl
S	propyl	OCOOMe	5,6-dimethyl-3-pyridyl
S	propyl	OCOOMe	2,6-diethyl-3-pyridyl
S	propyl	OCOOMe	5,6-diethyl-3-pyridyl
S	propyl	OCOOMe	2,6-dimethoxy-3-pyridyl
S	propyl	OCOOMe	5,6-dimethoxy-3-pyridyl
ន	propyl	OCOOMe	2,6-diethoxy-3-pyridyl
S	propyl	OCOOMe	5,6-diethoxy-3-pyridyl
S	propyl	OCOOMe	2,6-dichloro-3-pyridyl
S	propyl	OCOOMe	5,6-dichloro-3-pyridyl
S	propyl	OCOOMe	5-chloro-6-methoxy-3-pyridyl
S	propyl	OCOOMe	5-chloro-6-ethoxy-3-pyridyl
S	propyl	OCOOMe	2-chloro-6-methyl-3-pyridyl
S	propyl	OCOOMe	6-chloro-2-methyl-3-pyridyl
S	propyl	OCOOMe	2-methyl-4-pyridyl
S	propyl	OCOOMe	2-ethyl-4-pyridyl
S	propyl	OCOOMe	2-methoxy-4-pyridyl
S	propyl	OCOOMe	2-ethoxy-4-pyridyl
S	propyl	OCOOMe	2-chloro-4-pyridyl
S	propyl	OCOOMe	2-dimethylamino-4-pyridyl
S	propyl	OCOOMe	2-(1-pyrrolidinyl)-4-pyridyl
S	propyl	OCOOMe	2-piperidino-4-pyridyl
S	propyl	OCOOMe	2-morpholino-4-pyridyl
S	propyl	OCOOMe	2-methylthio-4-pyridyl
S	propyl	OCOOMe	2-pyrazinyl
S	propyl	OCOOMe	5-methyl-2-pyrazinyl
S	propyl	OCOOMe	5-ethyl-2-pyrazinyl
S	propyl	OCOOMe	5-methoxy-2-pyrazinyl
S	propyl	OCOOMe	5-ethoxy-2-pyrazinyl
S	propyl	ОСООМе	5-chloro-2-pyrazinyl
S	propyl	OCOOMe	6-methyl-2-pyrazinyl
S	propyl	OCOOMe	6-methoxy-2-pyrazinyl
S	propyl	OCOOMe	6-chloro-2-pyrazinyl

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X	R <sub>1</sub>	R <sub>2</sub>	Y
S	propyl	OCOOEt	2-pyridyl
S	propyl	OCOOEt	3-pyridyl
S	propyl	OCOOEt	4-pyridyl
S	propyl	OCOOEt	2-methyl-3-pyridyl
S	propyl	OCOOEt	4-methyl-3-pyridyl
S	propyl	OCOOEt	5-methyl-3-pyridyl
S	propyl	OCOOEt	6-methyl-3-pyridyl
S	propyl	OCOOEt	2-ethyl-3-pyridyl
S	propyl	OCOOEt	4-ethyl-3-pyridyl
S	propyl	OCOOEt	5-ethyl-3-pyridyl
S	propyl	OCOOEt	6-ethyl-3-pyridyl
S	propyl	OCOOEt	2-methoxy-3-pyridyl
S	propyl	OCOOEt	4-methoxy-3-pyridyl
S	propyl	OCOOEt	5-methoxy-3-pyridyl
S	propyl	OCOOEt	6-methoxy-3-pyridyl
S	propyl	OCOOEt	2-ethoxy-3-pyridyl
S	propyl	OCOOEt	4-ethoxy-3-pyridyl
S	propyl	OCOOEt	5-ethoxy-3-pyridyl
S	propyl	OCOOEt	6-ethoxy-3-pyridyl
S	propyl	OCOOEt	2-chloro-3-pyridyl
S	propyl	OCOOEt	4-chloro-3-pyridyl
S	propyl	OCOOEt	5-chloro-3-pyridyl
S	propyl	OCOOEt	6-chloro-3-pyridyl
S	propyl	OCOOEt	2-fluoro-3-pyridyl
S	propyl	OCOOEt	4-fluoro-3-pyridyl
S	propyl	OCOOEt	5-fluoro-3-pyridyl
S	propyl	OCOOEt	6-fluoro-3-pyridyl
S	propyl	OCOOEt	2-dimethylamino-3-pyridyl
S	propyl	OCOOEt	4-dimethylamino-3-pyridyl
S	propyl	OCOOEt	5-dimethylamino-3-pyridyl
S	propyl	OCOOEt	6-dimethylamino-3-pyridyl
S	propyl	OCOOEt	2-(1-pyrrolidinyl)-3-pyridyl
S	propyl	OCOOEt	3-(1-pyrrolidinyl)-3-pyridyl
S	propyl	OCOOEt	5-(1-pyrrolidinyl)-3-pyridyl
S	propyl	OCOOEt	6-(1-pyrrolidinyl)-3-pyridyl
S	propyl	OCOOEt	2-piperidino-3-pyridyl
S	propyl	OCOOEt	4-piperidino-3-pyridyl
S	propyl	OCOOEt	5-piperidino-3-pyridyl
S	propyl	OCOOEt	6-piperidino-3-pyridyl
S	propyl	OCOOEt	2-morpholino-3-pyridyl
S	propyl	OCOOEt	4-morpholino-3-pyridyl
S	propyl	OCOOEt	5-morpholino-3-pyridyl
S	propyl	OCOOEt	6-morpholino-3-pyridyl
S	propyl	OCOOEt	2-hydroxy-3-pyridyl
S	propyl	OCOOEt	4-hydroxy-3-pyridyl
S	propyl	OCOOEt	5-hydroxy-3-pyridyl
S	propyl	OCOOEt	6-hydroxy-3-pyridyl
	Propj.	000000	o Manay-p-pyridyr

S propyl OCOOEt 5-mercapto-3-pyr. S propyl OCOOEt 5-mercapto-3-pyr. S propyl OCOOEt 5-mercapto-3-pyr. S propyl OCOOEt 6-mercapto-3-pyr. S propyl OCOOEt 2-methylthio-3-pyr. S propyl OCOOEt 4-methylthio-3-pyr. S propyl OCOOEt 5-methylthio-3-pyr. S propyl OCOOEt 5-methylthio-3-pyr. S propyl OCOOEt 6-methylthio-3-pyr. S propyl OCOOEt 2,6-dimethyl-3-pyr. S propyl OCOOEt 2,6-dimethyl-3-pyr. S propyl OCOOEt 2,6-dimethyl-3-pyr. S propyl OCOOEt 5,6-dimethoxy-3-pyr. S propyl OCOOEt 2,6-dimethoxy-3-pyr. S propyl OCOOEt 5,6-dimethoxy-3-pyr. S propyl OCOOEt 5,6-dimethoxy-3-pyr. S propyl OCOOEt 5,6-dimethoxy-3-pyr. S propyl OCOOEt 5,6-dichlory-3-pyr. S propyl OCOOEt 5,6-dichlory-3-pyr. S propyl OCOOEt 5,6-dichlory-3-pyr. S propyl OCOOEt 5-chloro-6-methoxy-3-pyr. S propyl OCOOEt 5-chloro-6-methoxy-3-pyr. S propyl OCOOEt 5-chloro-6-methyl-3-pyr. S propyl OCOOEt 5-methoxy-4-pyr. S propyl OCOOEt 5-methoxy-4-pyr. S propyl OCOOEt 5-methyl-4-pyr. S propyl OCOOEt 5-methyl-4-pyr. S propyl OCOOEt 5-methyl-2-pyr. S propyl OCOOEt 5-methyl-2-pyr. S propyl OCOOEt 5-methoxy-2-pyr.				
S propyl OCOOEt 5-mercapto-3-pyr: S propyl OCOOEt 2-methylthio-3-pyr: S propyl OCOOEt 2-methylthio-3-pyr: S propyl OCOOEt 4-methylthio-3-pyr: S propyl OCOOEt 5-methylthio-3-pyr: S propyl OCOOEt 5-methylthio-3-pyr: S propyl OCOOEt 5-methylthio-3-pyr: S propyl OCOOEt 5-methylthio-3-pyr: S propyl OCOOEt 5-6-dimethyl-3-pyr: S propyl OCOOEt 2,6-dimethyl-3-pyr: S propyl OCOOEt 2,6-dimethyl-3-pyr: S propyl OCOOEt 5,6-dimethoxy-3-pyr: S propyl OCOOEt 5,6-dichloro-3-pyr: S propyl OCOOEt 5,6-dichloro-3-pyr: S propyl OCOOEt 5-chloro-6-methyl-3-pyr: S propyl OCOOEt 5-chloro-6-methyl-3-pyr: S propyl OCOOEt 5-chloro-6-methyl-3-pyr: S propyl OCOOEt 2-methyl-4-pyridy S propyl OCOOEt 2-chloro-4-pyridy S propyl OCOOEt 2-chloro-4-pyridy S propyl OCOOEt 2-methyl-4-pyridy S propyl OCOOEt 3-methyl-2-pyrazinyl S propyl OCOOEt 5-methoy-2-pyrazinyl	S		OCOOEt	2-mercapto-3-pyridyl
S propyl OCOOEt 2-methylthio-3-pyr. S propyl OCOOEt 2-methylthio-3-pyr. S propyl OCOOEt 4-methylthio-3-pyr. S propyl OCOOEt 5-methylthio-3-pyr. S propyl OCOOEt 5-methylthio-3-pyr. S propyl OCOOEt 5-methylthio-3-pyr. S propyl OCOOEt 2,6-dimethyl-3-pyr. S propyl OCOOEt 5,6-dimethyl-3-pyr. S propyl OCOOEt 2,6-dimethyl-3-pyr. S propyl OCOOEt 2,6-dimethoxy-3-pyr. S propyl OCOOEt 2,6-dimethoxy-3-pyr. S propyl OCOOEt 5,6-dimethoxy-3-pyr. S propyl OCOOEt 5,6-dimethoxy-3-pyr. S propyl OCOOEt 5,6-dimethoxy-3-pyr. S propyl OCOOEt 5,6-dimethoxy-3-pyr. S propyl OCOOEt 5,6-dichloro-3-pyr. S propyl OCOOEt 5,6-dichloro-3-pyr. S propyl OCOOEt 5-chloro-6-methyl-3-pyr. S propyl OCOOEt 5-chloro-6-methyl-3-pyr. S propyl OCOOEt 5-chloro-6-methyl-3-pyr. S propyl OCOOEt 2-methyl-4-pyr. S propyl OCOOEt 3-methyl-2-pyr. S propyl OCOOEt 3-methyl-2-pyr. S propyl OCOOEt 5-methyl-2-pyr. S propyl OCOOEt 5-methoy-2-pyr. S propyl OCOOEt 5-methoy-2-pyr. S propyl OCOOEt 5-methoy-2-pyr.		propyl		4-mercapto-3-pyridyl
S propyl OCOOEt 2-methylthio-3-pyn S propyl OCOOEt 4-methylthio-3-pyn S propyl OCOOEt 5-methylthio-3-pyn S propyl OCOOEt 5-methylthio-3-pyn S propyl OCOOEt 5-methylthio-3-pyn S propyl OCOOEt 2,6-dimethyl-3-pyn S propyl OCOOEt 2,6-dimethyl-3-pyn S propyl OCOOEt 2,6-dimethyl-3-pyn S propyl OCOOEt 2,6-dimethyl-3-pyn S propyl OCOOEt 2,6-dimethoxy-3-pyn S propyl OCOOEt 2,6-dimethoxy-3-pyn S propyl OCOOEt 2,6-dimethoxy-3-pyn S propyl OCOOEt 2,6-diethoxy-3-pyn S propyl OCOOEt 2,6-diethoxy-3-pyn S propyl OCOOEt 2,6-diethoxy-3-pyn S propyl OCOOEt 3,6-diethoxy-3-pyn S propyl OCOOEt 3-chloro-6-methyl-3-pyn S propyl OCOOEt 3-methyl-4-pynid S propyl OCOOEt 3-chloro-4-pynid S propyl OCOOEt 3-methyl-1-pynazin S propyl OCOOEt 3-methyl-1-pynazin S propyl OCOOEt 3-methyl-1-pynazin S propyl OCOOEt 3-methyl-1-pynazin S propyl OCOOEt 5-methyl-2-pynazin S propyl OCOOEt 5-methyl-3-pynazin S propyl OCOOEt 5-methyl-3-pynazin S propyl OCOOEt 5-chloro-2-pynazin S		propyl		Б-mercapto-3-pyridyl
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S propyl OCOOEt 2-chloro-6-methyl-3-p S propyl OCOOEt 6-chloro-2-methyl-3-p S propyl OCOOEt 2-methyl-4-pyridy S propyl OCOOEt 2-methyl-4-pyridy S propyl OCOOEt 2-methyl-4-pyridy S propyl OCOOEt 2-methyl-4-pyridy S propyl OCOOEt 2-methoxy-4-pyridy S propyl OCOOEt 2-chloro-4-pyridy S propyl OCOOEt 2-chloro-4-pyridy S propyl OCOOEt 2-dimethylamino-4-pyridy S propyl OCOOEt 2-dimethylamino-4-pyridy S propyl OCOOEt 2-piperidino-4-pyridy S propyl OCOOEt 2-morpholino-4-pyridy S propyl OCOOEt 2-morpholino-4-pyridy S propyl OCOOEt 2-methylthio-4-pyridy S propyl OCOOEt 2-methylthio-4-pyridy S propyl OCOOEt 2-methylthio-4-pyridy S propyl OCOOEt 3-methyl-2-pyraziny S propyl OCOOEt 5-methyl-2-pyraziny S propyl OCOOEt 5-methoxy-2-pyraziny		<del>~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~</del>		5-chloro-6-methoxy-3-pyridy1
S propyl OCOOEt 6-chloro-2-methyl-3-p S propyl OCOOEt 2-methyl-4-pyrid S propyl OCOOEt 2-ethyl-4-pyridy S propyl OCOOEt 2-methyl-4-pyridy S propyl OCOOEt 2-methyl-4-pyridy S propyl OCOOEt 2-ethoxy-4-pyridy S propyl OCOOEt 2-chloro-4-pyridy S propyl OCOOEt 2-chloro-4-pyridy S propyl OCOOEt 2-dimethylamino-4-pyr S propyl OCOOEt 2-piperidino-4-pyr S propyl OCOOEt 2-morpholino-4-pyr S propyl OCOOEt 2-morpholino-4-pyr S propyl OCOOEt 2-methylthio-4-pyr S propyl OCOOEt 2-methylthio-4-pyr S propyl OCOOEt 3-methyl-2-pyrazinyl S propyl OCOOEt 5-methyl-2-pyrazin S propyl OCOOEt 5-methoxy-2-pyrazin S propyl OCOOEt 5-methoxy-2-pyrazin S propyl OCOOEt 5-chloro-2-pyrazin				5-chloro-6-ethoxy-3-pyridyl
S propyl OCOOEt 2-methyl-4-pyridy S propyl OCOOEt 2-ethyl-4-pyridy S propyl OCOOEt 2-methoxy-4-pyridy S propyl OCOOEt 2-ethoxy-4-pyridy S propyl OCOOEt 2-ethoxy-4-pyridy S propyl OCOOEt 2-ethoxy-4-pyridy S propyl OCOOEt 2-chloro-4-pyridy S propyl OCOOEt 2-dimethylamino-4-pyridy S propyl OCOOEt 2-piperidino-4-pyridy S propyl OCOOEt 2-piperidino-4-pyridy S propyl OCOOEt 2-morpholino-4-pyridy S propyl OCOOEt 2-morpholino-4-pyridy S propyl OCOOEt 2-methylthio-4-pyridy S propyl OCOOEt 2-methylthio-4-pyridy S propyl OCOOEt 3-methyl-2-pyraziny S propyl OCOOEt 5-methyl-2-pyraziny S propyl OCOOEt 5-methoxy-2-pyraziny S propyl OCOOEt 5-methoxy-2-pyraziny S propyl OCOOEt 5-ethoxy-2-pyraziny S propyl OCOOEt 5-ethoxy-2-pyraziny S propyl OCOOEt 5-ethoxy-2-pyraziny S propyl OCOOEt 5-ethoxy-2-pyraziny				2-chloro-6-methyl-3-pyridyl
S propyl OCOOEt 2-ethyl-4-pyridy S propyl OCOOEt 2-methoxy-4-pyridy S propyl OCOOEt 2-ethoxy-4-pyridy S propyl OCOOEt 2-ethoxy-4-pyridy S propyl OCOOEt 2-ethoxy-4-pyridy S propyl OCOOEt 2-dimethylamino-4-pyridy S propyl OCOOEt 2-dimethylamino-4-pyridy S propyl OCOOEt 2-piperidino-4-pyridy S propyl OCOOEt 2-piperidino-4-pyridy S propyl OCOOEt 2-morpholino-4-pyridy S propyl OCOOEt 2-morpholino-4-pyridy S propyl OCOOEt 2-methylthio-4-pyridy S propyl OCOOEt 2-methylthio-4-pyridy S propyl OCOOEt 3-methyl-2-pyraziny S propyl OCOOEt 5-methyl-2-pyraziny S propyl OCOOEt 5-methoxy-2-pyraziny S propyl OCOOEt 5-methoxy-2-pyraziny S propyl OCOOEt 5-ethoxy-2-pyraziny S propyl OCOOEt 5-ethoxy-2-pyraziny S propyl OCOOEt 5-ethoxy-2-pyraziny S propyl OCOOEt 5-ethoxy-2-pyraziny				6-chloro-2-methyl-3-pyridyl
S propyl OCOOEt 2-methoxy-4-pyridy S propyl OCOOEt 2-ethoxy-4-pyridy S propyl OCOOEt 2-chloro-4-pyridy S propyl OCOOEt 2-dimethylamino-4-pyridy S propyl OCOOEt 2-dimethylamino-4-pyridy S propyl OCOOEt 2-piperidino-4-pyridy S propyl OCOOEt 2-piperidino-4-pyridy S propyl OCOOEt 2-morpholino-4-pyridy S propyl OCOOEt 2-methylthio-4-pyridy S propyl OCOOEt 2-methylthio-4-pyridy S propyl OCOOEt 2-methylthio-4-pyridy S propyl OCOOEt 3-methyl-2-pyraziny S propyl OCOOEt 5-methyl-2-pyraziny S propyl OCOOEt 5-methoxy-2-pyraziny S propyl OCOOEt 5-methoxy-2-pyraziny S propyl OCOOEt 5-ethoxy-2-pyraziny S propyl OCOOEt 5-ethoxy-2-pyraziny S propyl OCOOEt 5-ethoxy-2-pyraziny S propyl OCOOEt 5-chloro-2-pyraziny				2-methyl-4-pyridyl
S propyl OCOOEt 2-ethoxy-4-pyridy S propyl OCOOEt 2-chloro-4-pyridy S propyl OCOOEt 2-dimethylamino-4-pyridy S propyl OCOOEt 2-dimethylamino-4-pyr S propyl OCOOEt 2-piperidino-4-pyridy S propyl OCOOEt 2-piperidino-4-pyr S propyl OCOOEt 2-morpholino-4-pyr S propyl OCOOEt 2-methylthio-4-pyr S propyl OCOOEt 2-pyrazinyl S propyl OCOOEt 5-methyl-2-pyrazin S propyl OCOOEt 5-methyl-2-pyrazin S propyl OCOOEt 5-methoxy-2-pyrazin S propyl OCOOEt 5-methoxy-2-pyrazin S propyl OCOOEt 5-ethoxy-2-pyrazin S propyl OCOOEt 5-chloro-2-pyrazin				2-ethyl-4-pyridyl
S propyl OCOOEt 2-chloro-4-pyridy S propyl OCOOEt 2-dimethylamino-4-pyridy S propyl OCOOEt 2-dimethylamino-4-pyridy S propyl OCOOEt 2-piperidino-4-pyridy S propyl OCOOEt 2-piperidino-4-pyridy S propyl OCOOEt 2-morpholino-4-pyridy S propyl OCOOEt 2-morpholino-4-pyridy S propyl OCOOEt 2-methylthio-4-pyridy S propyl OCOOEt 2-pyrazinyl S propyl OCOOEt 5-methyl-2-pyrazinyl S propyl OCOOEt 5-methyl-2-pyrazinyl S propyl OCOOEt 5-methoxy-2-pyrazinyl S propyl OCOOEt 5-methoxy-2-pyrazinyl S propyl OCOOEt 5-methoxy-2-pyrazinyl S propyl OCOOEt 5-chloro-2-pyrazinyl S propyl OCOOEt 5-chloro-2-pyrazinyl S propyl OCOOEt 5-chloro-2-pyrazinyl S propyl OCOOEt 5-chloro-2-pyrazinyl				2-methoxy-4-pyridyl
S propyl OCOOEt 2-dimethylamino-4-py S propyl OCOOEt 2-(1-pyrrolidinyl)-4-py S propyl OCOOEt 2-piperidino-4-pyri S propyl OCOOEt 2-morpholino-4-pyri S propyl OCOOEt 2-methylthio-4-pyri S propyl OCOOEt 2-methylthio-4-pyri S propyl OCOOEt 2-pyrazinyl S propyl OCOOEt 5-methyl-2-pyrazin S propyl OCOOEt 5-methyl-2-pyrazin S propyl OCOOEt 5-methoxy-2-pyrazin S propyl OCOOEt 5-methoxy-2-pyrazin S propyl OCOOEt 5-ethoxy-2-pyrazin S propyl OCOOEt 5-chloro-2-pyrazin		······································		2-ethoxy-4-pyridyl
S propyl OCOOEt 2-(1-pyrrolidinyl)-4-p. S propyl OCOOEt 2-piperidino-4-pyri S propyl OCOOEt 2-morpholino-4-pyri S propyl OCOOEt 2-methylthio-4-pyr S propyl OCOOEt 2-pyrazinyl S propyl OCOOEt 5-methyl-2-pyrazin S propyl OCOOEt 5-ethyl-2-pyrazin S propyl OCOOEt 5-methoxy-2-pyrazin S propyl OCOOEt 5-methoxy-2-pyrazin S propyl OCOOEt 5-ethoxy-2-pyrazin S propyl OCOOEt 5-ethoxy-2-pyrazin S propyl OCOOEt 5-chloro-2-pyrazin				2-chloro-4-pyridyl
S propyl OCOOEt 2-piperidino-4-pyri S propyl OCOOEt 2-morpholino-4-pyri S propyl OCOOEt 2-methylthio-4-pyri S propyl OCOOEt 2-methylthio-4-pyri S propyl OCOOEt 2-pyrazinyl S propyl OCOOEt 5-methyl-2-pyrazinyl S propyl OCOOEt 5-ethyl-2-pyrazinyl S propyl OCOOEt 5-methoxy-2-pyrazinyl S propyl OCOOEt 5-methoxy-2-pyrazinyl S propyl OCOOEt 5-ethoxy-2-pyrazinyl S propyl OCOOEt 5-ethoxy-2-pyrazinyl S propyl OCOOEt 5-chloro-2-pyrazinyl				2-dimethylamino-4-pyridyl
S propyl OCOOEt 2-morpholino-4-pyr S propyl OCOOEt 2-methylthio-4-pyr S propyl OCOOEt 2-methylthio-4-pyr S propyl OCOOEt 2-pyrazinyl S propyl OCOOEt 5-methyl-2-pyrazin S propyl OCOOEt 5-ethyl-2-pyrazin S propyl OCOOEt 5-methoxy-2-pyrazin S propyl OCOOEt 5-ethoxy-2-pyrazin S propyl OCOOEt 5-chloro-2-pyrazin				2-(1-pyrrolidinyl)-4-pyridyl
S propyl OCOOEt 2-methylthio-4-pyr S propyl OCOOEt 2-pyrazinyl S propyl OCOOEt 5-methyl-2-pyrazin S propyl OCOOEt 5-ethyl-2-pyrazin S propyl OCOOEt 5-methoxy-2-pyrazin S propyl OCOOEt 5-ethoxy-2-pyrazin S propyl OCOOEt 5-ethoxy-2-pyrazin S propyl OCOOEt 5-chloro-2-pyrazin				2-piperidino-4-pyridyl
S propyl OCOOEt 2-pyrazinyl S propyl OCOOEt 5-methyl-2-pyrazin S propyl OCOOEt 5-ethyl-2-pyrazin S propyl OCOOEt 5-methoxy-2-pyrazin S propyl OCOOEt 5-ethoxy-2-pyrazin S propyl OCOOEt 5-chloro-2-pyrazin				2-morpholino-4-pyridyl
S propyl OCOOEt 5-methyl-2-pyrazin S propyl OCOOEt 5-ethyl-2-pyrazin S propyl OCOOEt 5-methoxy-2-pyrazin S propyl OCOOEt 5-ethoxy-2-pyrazin S propyl OCOOEt 5-ethoxy-2-pyrazin S propyl OCOOEt 5-chloro-2-pyrazin				2-methylthio-4-pyridyl
S propyl OCOOEt 5-ethyl-2-pyrazin S propyl OCOOEt 5-methoxy-2-pyrazin S propyl OCOOEt 5-ethoxy-2-pyrazin S propyl OCOOEt 5-chloro-2-pyrazin				
S propyl OCOOEt 5-methoxy-2-pyrazing S propyl OCOOEt 5-ethoxy-2-pyrazing S propyl OCOOEt 5-chloro-2-pyrazing S				5-methyl-2-pyrazinyl
S propyl OCOOEt 5-ethoxy-2-pyrazir S propyl OCOOEt 5-chloro-2-pyrazin				5-ethyl-2-pyrazinyl
S propyl OCOOEt 5-chloro-2-pyrazin				5-methoxy-2-pyrazinyl
S propyl OCOOEt 5-chloro-2-pyrazin				5-ethoxy-2-pyrazinyl
S propyl OCOOEt 6-methyl-2-pyrazii				5-chloro-2-pyrazinyl
		propyl	OCOOEt	6-methyl-2-pyrazinyl
				6-methoxy-2-pyrazinyl
S propyl OCOOEt 6-chloro-2-pyrazin	S	propyl	OCOOEt	6-chloro-2-pyrazinyl

20

X	R <sup>1</sup>	R <sup>2</sup>	Y
S	n-butyl	ОН	2-pyridyl
S	n-butyl	ОН	3-pyridyl
S	n-butyl	OH	4-pyridyl
S	n-butyl	ОН	2-methyl-3-pyridyl
S	n-butyl	ОН	4-methyl-3-pyridyl
S	n-butyl	OH	5-methyl-3-pyridyl
S	n-butyl	OH	6-methyl-3-pyridyl
S	n-butyl	OH	2-ethyl-3-pyridyl
S	n-butyl	OH	4-ethyl-3-pyridyl
S	n-butyl	OH	5-ethyl-3-pyridyl
S	n-butyl	OH	6-ethyl-3-pyridyl
S	n-butyl	OH	2-methoxy-3-pyridyl
S	n-butyl	OH	4-methoxy-3-pyridyl
S	n-butyl	OH ·	5-methoxy-3-pyridyl
S	n-butyl	ОН	6-methoxy-3-pyridyl
S	n-butyl	ОН	2-ethoxy-3-pyridyl
S	n-butyl	OH	4-ethoxy-3-pyridyl
S	n-butyl	OH	5-ethoxy-3-pyridyl
S	n-butyl	OH	6-ethoxy-3-pyridyl
S	n-hutyl	OH	2-chloro-3-pyridyl
S	n-butyl	OH	4-chloro-8-pyridyl
S	n-butyl	ОН	5-chloro-3-pyridyl
S	n-butyl	ОН	6-chloro-3-pyridyl
S	n-butyl	OH	2-fluoro-3-pyridyl
S	n-butyl	OH	4-fluoro-3-pyridyl
s	n-butyl	OH	5-fluoro-3-pyridyl
S	n-butyl	ОН	6-fluoro-3-pyridyl
S	n-butyl	OH	2-dimethylamino-3-pyridyl
S	n-butyl	OH	4-dimethylamino-3-pyridyl
S	n-butyl	OH	5-dimethylamino-3-pyridyl
S	n-butyl	OH	6-dimethylamino-3-pyridyl
S	n-butyl	OH	2-(1-pyrrolidinyl)-3-pyridyl
S	n-butyl	OH	3-(1-pyrrolidinyl)-3-pyridyl
S	n-butyl	OH	5-(1-pyrrolidinyl)-3-pyridyl
S	n-butyl	OH	6-(1-pyrrolidinyl)-3-pyridyl
S	n-butyl	ОН	2-piperidino-3-pyridyl
S	n-butyl	OH	4-piperidino-3-pyridyl
S	n-butyl	ОН	5-piperidino-3-pyridyl
S	n-butyl	OH	6-piperidino-3-pyridyl
S	n-butyl	OH	2-morpholino-3-pyridyl
S	n-butyl	ОН	4-morpholino-3-pyridyl
S	n-butyl	OH	5-morpholino-3-pyridyl
S	n-butyl	OH	6-morpholino-3-pyridyl
S	n-butyl	OH	2-hydroxy-3-pyridyl
S	n-butyl	OH	4-hydroxy-3-pyridyl
S	n-butyl	OH	5-hydroxy-3-pyridyl
S	n-butyl	OH	6-hydroxy-3-pyridyl

S	n-butyl	OH	2-mercapto-3-pyridyl
S	n-butyl	OH	4-mercapto-3-pyridyl
S	n-butyl	OH	5-mercapto-3-pyridyl
S	n-butyl	OH	6-mercapto-3-pyridyl
S	n-butyl	OH	2-methylthio-3-pyridyl
S	n-butyl	OH	4-methylthio-3-pyridyl
S	n-butyl	OH	5-methylthio-3-pyridyl
S	n-butyl	ОН	6-methylthio-3-pyridyl
S	n-butyl	OH	2,6-dimethyl-3-pyridyl
S	n-butyl	OH	5,6-dimethyl-3-pyridyl
S	n-butyl	OH	2,6-diethyl-3-pyridyl
S	n-butyl	OH	5,6-diethyl-3-pyridyl
S	n-butyl	OH	2,6-dimethoxy-3-pyridyl
S	n-butyl	OH	5,6-dimethoxy-3-pyridyl
S	n-butyl	ОН	2,6-diethoxy-3-pyridyl
S	n-butyl	ОН	5,6-diethoxy-3-pyridyl
S	n-butyl	ОН	2,6-dichloro-3-pyridyl
S	n-butyl	ОН	5,6-dichloro-3-pyridyl
s	n-butyl	ОН	5-chloro-6-methoxy-3-pyridyl
S	n-butyl	ОН	5-chloro-6-ethoxy-3-pyridyl
S	n-butyl	OH	2-chloro-6-methyl-3-pyridyl
S	n-butyl	OH	6-chloro-2-methyl-3-pyridyl
S	n-butyl	OH	2-methyl-4-pyridyl
S	n-butyl	OH	2-ethyl-4-pyridyl
S	n-butyl	OH	2-methoxy-4-pyridyl
S	n-butyl	OH	2-ethoxy-4-pyridyl
S	n-butyl	ОН	2-chloro-4-pyridyl
S	n-butyl	OH	2-dimethylamino-4-pyridyl
S	n-butyl	OH	2-(1-pyrrolidinyl)-4-pyridyl
S	n-butyl	OH	2-piperidino-4-pyridyl
S	n-butyl	OH	2-morpholino-4-pyridyl
S	n-butyl	OH	2-methylthio-4-pyridyl
S	n-butyl	OH	2-pyrazinyl
S	n-butyl	OH	5-methyl-2-pyrazinyl
S	n-butyl	OH	5-ethyl-2-pyrazinyl
S	n-butyl	ОН	5-methoxy-2-pyrazinyl
S	n-butyl	ОН	5-ethoxy-2-pyrazinyl
S	n-butyl	ОН	5-chloro-2-pyrazinyl
S	n-butyl	ОН	6-methyl-2-pyrazinyl
S	n-butyl	ОН	6-methoxy-2-pyrazinyl
S	n-butyl	ОН	6-chloro-2-pyrazinyl

X	R1	R <sup>2</sup>	Y Y
S	n-butyl	OCOOMe	2-pyridyl
<u>~_</u>	n-butyl	OCOOMe	3-pyridyl
<u>s</u>	n-butyl	OCOOMe	4-pyridyl
S	n-butyl	OCOOMe	2-methyl-3-pyridyl
S	n-butyl	OCOOMe	4-methyl-3-pyridyl
	n-butyl	OCOOMe	5-methyl-3-pyridyl
S	n-butyl	OCOOMe	6-methyl-3-pyridyl
S		OCOOMe	2-ethyl-3-pyridyl
	n-butyl	OCOOMe	
S	n-butyl		4-ethyl-3-pyridyl
	n-butyl	OCOOMe	5-ethyl-3-pyridyl
S	n-butyl	OCOOMe	6-ethyl-3-pyridyl
S	n-butyl	OCOOMe	2-methoxy-3-pyridyl
S	n-butyl	OCOOMe	4-methoxy-3-pyridyl
S	n-butyl	OCOOMe	5-methoxy-3-pyridyl
S	n-butyl	OCOOMe	6-methoxy-3-pyridyl
S	n-butyl	OCOOMe	2-ethoxy-3-pyridyl
S	n-butyl	OCOOMe	4-ethoxy-3-pyridyl
S	n-butyl	OCOOMe	5-ethoxy-3-pyridyl
S	n-butyl	OCOOMe	6-ethoxy-3-pyridyl
S	n-butyl	OCOOMe	2-chloro-3-pyridyl
S	n-butyl	OCOOMe	4-chloro-3-pyridyl
S	n-butyl	OCOOMe	5-chloro-3-pyridyl
S	n-butyl	OCOOMe	6-chloro-3-pyridyl
S	n-butyl	OCOOMe	2-fluoro-3-pyridyl
S	n-butyl	OCOOMe	4-fluoro-3-pyridyl
S	n-butyl	OCOOMe	5-fluoro-3-pyridyl
S	n-butyl	OCOOMe	6-fluoro-3-pyridyl
S	n-butyl	OCOOMe	2-dimethylamino-3-pyridyl
S	n-butyl	OCOOMe	4-dimethylamino-3-pyridyl
S	n-butyl	OCOOMe	5-dimethylamino-3-pyridyl
S	n-butyl	OCOOMe	6-dimethylamino-3-pyridyl
S	n-butyl	OCOOMe	2-(1-pyrrolidinyl)-3-pyridyl
S	n-butyl	OCOOMe	3-(1-pyrrolidinyl)-3-pyridyl
S	n-butyl	OCOOMe	5-(1-pyrrolidinyl)-3-pyridyl
S	n-butyl	OCOOMe	6-(1-pyrrolidinyl)-3-pyridyl
S	n-butyl	OCOOMe	2-piperidino-3-pyridyl
$\frac{\tilde{s}}{s}$	n-butyl	OCOOMe	4-piperidino-3-pyridyl
$\frac{s}{s}$	n-butyl	OCOOMe	5-piperidino-3-pyridyl
S	n-butyl	OCOOMe OCOOMe	6-piperidino-3-pyridyl
$\frac{s}{s}$	n-butyl	OCOOMe	2-morpholino-3-pyridyl
$\frac{s}{s}$	n-butyl	OCOOMe	4-morpholino-3-pyridyl
S	n-butyl	OCOOMe	5-morpholino-3-pyridyl
S	n-butyl	OCOOMe	6-morpholino-3-pyridyl
S		OCOOMe OCOOMe	
S	n-butyl		2-hydroxy-3-pyridyl
	n-butyl	OCOOMe	4-hydroxy-3-pyridyl
S	n-butyl	OCOOMe	5-hydroxy-3-pyridyl
S	n-butyl	OCOOMe	6-hydroxy-3-pyridyl

S	n-butyl	OCOOMe	2-mercapto-3-pyridyl
S	n-butyl	OCOOMe	4-mercapto-3-pyridyl
S	n-butyl	OCOOMe	5-mercapto-3-pyridyl
S	n-butyl	OCOOMe	6-mercapto-3-pyridyl
S	n-butyl	OCOOMe	2-methylthio-3-pyridyl
S	n-butyl	OCOOMe	4-methylthio-3-pyridyl
S	n-butyl	OCOOMe	5-methylthio-3-pyridyl
S	n-butyl	OCOOMe	6-methylthio-3-pyridyl
S	n-butyl	OCOOMe	2,6-dimethyl-3-pyridyl
S	n-butyl	OCOOMe	5,6-dimethyl-3-pyridyl
S	n-butyl	OCOOMe	2,6-diethyl-3-pyridyl
S	n-butyl	OCOOMe	5,6-diethyl-3-pyridyl
S	n-butyl	OCOOMe	2,6-dimethoxy-3-pyridyl
S	n-butyl	OCOOMe	5,6-dimethoxy-3-pyridyl
S	n-butyl	OCOOMe	2,6-diethoxy-3-pyridyl
S	n-butyl	OCOOMe	5,6-diethoxy-3-pyridyl
S	n-butyl	OCOOMe	2,6-dichloro-3-pyridyl
S	n-butyl	OCOOMe	5,6-dichloro-3-pyridyl
S	n-butyl	OCOOMe	5-chloro-6-methoxy-3-pyridyl
S	n-butyl	OCOOMe	5-chloro-6-ethoxy-3-pyridyl
S	n-butyl	OCOOMe	2-chloro-6-methyl-3-pyridyl
S	n-butyl	OCOOMe	6-chloro-2-methyl-3-pyridyl
S	n-butyl	OCOOMe	2-methyl-4-pyridyl
S	n-butyl	OCOOMe	2-ethyl-4-pyridyl
S	n-butyl	OCOOMe	2-methoxy-4-pyridyl
S	n-butyl	OCOOMe	2-ethoxy-4-pyridyl
S	n-butyl	OCOOMe	2-chloro-4-pyridyl
S	n-butyl	OCOOMe	2-dimethylamino-4-pyridyl
S	n-butyl	OCOOMe	2-(1-pyrrolidinyl)-4-pyridyl
S	n-butyl	OCOOMe	2-piperidino-4-pyridyl
s	n-butyl	OCOOMe	2-morpholino-4-pyridyl
S	n-butyl	OCOOMe	2-methylthio-4-pyridyl
S	n-butyl	OCOOMe	2-pyrazinyl
S	n-butyl	OCOOMe	5-methyl-2-pyrazinyl
S	n-butyl	OCOOMe	5-ethyl-2-pyrazinyl
S	n-butyl	OCOOMe	5-methoxy-2-pyrazinyl
S	n-butyl	OCOOMe	5-ethoxy-2-pyrazinyl
S	n-butyl	OCOOMe	5-chloro-2-pyrazinyl
S	n-butyl	OCOOMe	6-methyl-2-pyrazinyl
S	n-butyl	OCOOMe	6-methoxy-2-pyrazinyl
S	n-butyl	OCOOMe	6-chloro-2-pyrazinyl

X	R¹	R <sup>2</sup>	T y
S	n-butyl	OCOOEt	2-pyridyl
S	n-butyl	OCOOEt	3-pyridyl
S	n-butyl	OCOOEt	4-pyridyl
S	n-butyl	OCOOEt	2-methyl-3-pyridyl
S	n-butyl	OCOOEt	4-methyl-3-pyridyl
S	n-butyl	OCOOEt	5-methyl-3-pyridyl
S	n-butyl	OCOOEt	6-methyl-3-pyridyl
- <u>S</u>	n-butyl	OCOOEt	2-ethyl-3-pyridyl
<u>s</u>	n-butyl	OCOOEt	4-ethyl-3-pyridyl
- <u>s</u>	n-butyl	OCOOEt	5-ethyl-3-pyridyl
S	n-butyl	OCOOEt	6-ethyl-3-pyridyl
s	n-butyl	OCOOEt	2-methoxy-3-pyridyl
s	n-butyl	OCOOEt	4-methoxy-3-pyridyl
S	n-butyl	OCOOEt	5-methoxy-3-pyridyl
S	n-butyl	OCOOEt	6-methoxy-3-pyridyl
s	n-butyl	OCOOEt	2-ethoxy-3-pyridyl
S S	n-butyl	OCOOEt	4-ethoxy-3-pyridyl
<u>s</u>	n-butyl	OCOOEt	5-ethoxy-3-pyridyl
S	n-butyl	OCOOEt	6-ethoxy-3-pyridyl
S	n-butyl	OCOOEt	2-chloro-3-pyridyl
S	n-butyl	OCOOEt	4-chloro-3-pyridyl
S	n-butyl	OCOOEt	5-chloro-3-pyridyl
S	n-butyl	OCOOEt	6-chloro-3-pyridyl
S	n-butyl	OCOOEt	2-fluoro-3-pyridyl
S	n-butyl	OCOOEt	4-fluoro-3-pyridyl
S	n-butyl	OCOOEt	5-fluoro-3-pyridyl
S	n-butyl	OCOOEt	6-fluoro-3-pyridyl
S	n-butyl	OCOOEt	2-dimethylamino-3-pyridyl
S	n-butyl	OCOOEt	4-dimethylamino-3-pyridyl
S	n-butyl	OCOOEt	5-dimethylamino-3-pyridyl
s	n-butyl	OCOOEt	6-dimethylamino-3-pyridyl
S	n-butyl	OCOOEt	2-(1-pyrrolidinyl)-3-pyridyl
S	n-butyl	OCOOEt	3-(1-pyrrolidinyl)-3-pyridyl
S	n-butyl	OCOOEt	5-(1-pyrrolidinyl)-3-pyridyl
S	n-butyl	OCOOEt	6-(1-pyrrolidinyl)-3-pyridyl
S	n-butyl	OCOOEt	2-piperidino-3-pyridyl
S	n-butyl	OCOOEt	4-piperidino-3-pyridyl
S	n-butyl	OCOOEt	5-piperidino-3-pyridyl
S	n-butyl	OCOOEt	6-piperidino-3-pyridyl
S	n-butyl	OCOOEt	2-morpholino-3-pyridyl
S	n-butyl	OCOOEt	4-morpholino-3-pyridyl
S	n-butyl	OCOOEt	5-morpholino-3-pyridyl
S	n-butyl	OCOOEt	6-morpholino-3-pyridyl
S	n-butyl	OCOOEt	2-hydroxy-3-pyridyl
S	n-butyl	OCOOEt	4-hydroxy-3-pyridyl
S	n-butyl	OCOOEt	
S	n-butyl	OCOOEt	5-hydroxy-3-pyridyl
	n-paty1	JOUUSE	6-hydroxy-3-pyridyl

S	n-butyl	OCOOEt	2-mercapto-3-pyridyl
S	n-butyl	OCOOEt	4-mercapto-3-pyridyl
S	n-butyl	OCOOEt	5-mercapto-3-pyridyl
S	n-butyl	OCOOEt	6-mercapto-3-pyridyl
S	n-butyl	OCOOEt	2-methylthio-3-pyridyl
S	n-butyl	OCOOEt	4-methylthio-3-pyridyl
S	n-butyl	OCOOEt	5-methylthio-3-pyridyl
S	n-butyl	OCOOEt	6-methylthio-3-pyridyl
S	n-butyl	OCOOEt	2,6-dimethyl-3-pyridyl
S	n-butyl	OCOOEt	5,6-dimethyl-3-pyridyl
S	n-butyl	OCOOEt	2,6-diethyl-3-pyridyl
S	n-butyl	OCOOEt	5,6-diethyl-3-pyridyl
S	n-butyl	OCOOEt	2,6-dimethoxy-3-pyridyl
S	n-butyl	OCOOEt	5,6-dimethoxy-3-pyridyl
S	n-butyl	OCOOEt	2,6-diethoxy-3-pyridyl
S	n-butyl	OCOOEt	5,6-diethoxy-3-pyridyl
S	n-butyl	OCOOEt	2,6-dichloro-3-pyridyl
S	n-butyl	OCOOEt	5,6-dichloro-3-pyridyl
S	n-butyl	OCOOEt	5-chloro-6-methoxy-3-pyridy1
S	n-butyl	OCOOEt	5-chloro-6-ethoxy-3-pyridyl
S	n-butyl	OCOOEt	2-chloro-6-methyl-3-pyridyl
S	n-butyl	OCOOEt	6-chloro-2-methyl-3-pyridyl
S	n-butyl	OCOOEt	2-methyl-4-pyridyl
S	n-butyl	OCOOEt	2-ethyl-4-pyridyl
S	n-butyl	OCOOEt	2-methoxy-4-pyridyl
S	n-butyl	OCOOEt	2-ethoxy-4-pyridyl
S	n-butyl	OCOOEt	2-chloro-4-pyridyl
S	n-butyl	OCOOEt	2-dimethylamino-4-pyridyl
S	n-butyl	OCOOEt	2-(1-pyrrolidinyl)-4-pyridyl
S	n-butyl	OCOOEt	2-piperidino-4-pyridyl
S .	n-butyl	OCOOEt	2-morpholino-4-pyridyl
S	n-butyl	OCOOEt	2-methylthio-4-pyridyl
S	n-butyl	OCOOEt	2-pyrazinyl
S	n-butyl	OCOOEt	5-methyl-2-pyrazinyl
S	n-butyl	OCOOEt	5-ethyl-2-pyrazinyl
S	n-butyl	OCOOEt	5-methoxy-2-pyrazinyl
S	n-butyl	OCOOEt	5-ethoxy-2-pyrazinyl
S	n-butyl	OCOOEt	5-chloro-2-pyrazinyl
S	n-butyl	OCOOEt	6-methyl-2-pyrazinyl
S	n-butyl	OCOOEt	6-methoxy-2-pyrazinyl
S	n-butyl	OCOOEt	6-chloro-2-pyrazinyl

X	R <sup>1</sup>	R²	Y
S	n-pentyl	OH	2-pyridyl
S	n-pentyl	OH	3-pyridyl
S	n-pentyl	O.H.	4-pyridyl
S	n-pentyl	OH	2-methyl-3-pyridyl
S	n-pentyl	ОН	4-methyl-3-pyridyl
S	n-pentyl	ОН	5-methyl-3-pyridyl
S	n-pentyl	ОН	6-methyl-3-pyridyl
S	n-pentyl	OH	2-ethyl-3-pyridyl
S	n-pentyl	ОН	4-ethyl-3-pyridyl
S	n-pentyl	OH	5-ethyl-3-pyridyl
S	n-pentyl	OH	6-ethyl-3-pyridyl
S	n-pentyl	OH	2-methoxy-3-pyridyl
S	n-pentyl	OH	4-methoxy-3-pyridyl
S	n-pentyl	OH	5-methoxy-3-pyridyl
S	n-pentyl	ОН	6-methoxy-3-pyridyl
S	n-pentyl	OH	2-ethoxy-3-pyridyl
S	n-pentyl	OH	4-ethoxy-3-pyridyl
S	n-pentyl	ОН	5-ethoxy-3-pyridyl
S	n-pentyl	ОН	6-ethoxy-3-pyridyl
S	n-pentyl	OH	2-chloro-3-pyridyl
S	n-pentyl	OH	4-chloro-3-pyridyl
S	n-pentyl	OH	5-chloro-3-pyridyl
S	n-pentyl	OH	6-chloro-3-pyridyl
S	n-pentyl	OH	2-fluoro-3-pyridyl
S	n-pentyl	OH	4-fluoro-3-pyridyl
S	n-pentyl	OH	5-fluoro-3-pyridyl
S	n-pentyl	OH	6-fluoro-3-pyridyl
S	n-pentyl	OH	2-dimethylamino-3-pyridyl
S	n-pentyl	ОН	4-dimethylamino-3-pyridyl
S	n-pentyl	OH	5-dimethylamino-3-pyridyl
S	n-pentyl	OH	6-dimethylamino-3-pyridyl
S	n-pentyl	OH	2-(1-pyrrolidinyl)-3-pyridyl
S	n-pentyl	OH	3-(1-pyrrolidinyl)-3-pyridyl
S	n-pentyl	OH	
S			5-(1-pyrrolidinyl)-3-pyridyl
S	n-pentyl	OH	6-(1-pyrrolidinyl)-3-pyridyl
	n-pentyl		2-piporidino-3-pyridyl
S	n-pentyl	OH	4-piperidino-3-pyridyl
S	n-pentyl	OH	5-piperidino-3-pyridyl
S	n-pentyl	OH	6-piperidino-3-pyridyl
S	n-pentyl	OH	2-morpholino-3-pyridyl
S	n-pentyl	OH	4-morpholino-3-pyridyl
S	n-pentyl	ОН	5-morpholino-3-pyridyl
S	n-pentyl	ОН	6-morpholino-3-pyridyl
S	n-pentyl	OH	2-hydroxy-3-pyridyl
S	n-pentyl	OH	4-hydroxy-3-pyridyl
S	n-pentyl	ОН	5-hydroxy-3-pyridyl
S	n-pentyl	OH	6-hydroxy-3-pyridyl
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S         n-pentyl         OH         2-mercapto-3-pyridyl           S         n-pentyl         OH         4-mercapto-3-pyridyl           S         n-pentyl         OH         5-mercapto-3-pyridyl           S         n-pentyl         OH         2-methylthio-3-pyridyl           S         n-pentyl         OH         4-methylthio-3-pyridyl           S         n-pentyl         OH         5-methylthio-3-pyridyl           S         n-pentyl         OH         2,6-dimethyl-3-pyridyl           S         n-pentyl         OH         2,6-dimethyl-3-pyridyl           S         n-pentyl         OH         2,6-diethyl-3-pyridyl           S         n-pentyl         OH         2,6-diethyl-3-pyridyl           S         n-pentyl         OH         2,6-diethyl-3-pyridyl           S         n-pentyl         OH         2,6-diethoxy-3-pyridyl           S         n-pentyl         OH<						
S         n-pentyl         OH         4-mercapto-3-pyridyl           S         n-pentyl         OH         5-mercapto-3-pyridyl           S         n-pentyl         OH         2-methylthio-3-pyridyl           S         n-pentyl         OH         2-methylthio-3-pyridyl           S         n-pentyl         OH         5-methylthio-3-pyridyl           S         n-pentyl         OH         5-methylthio-3-pyridyl           S         n-pentyl         OH         2,6-dimethyl-3-pyridyl           S         n-pentyl         OH         2,6-diethyl-3-pyridyl           S         n-pentyl         OH         5,6-diethoxy-3-pyridyl           S         n-pentyl         OH         2,6-diethoxy-3-pyridyl           S         n-pentyl         OH         2,6-diethoxy-3-pyridyl           S         n-pentyl         OH </td <td></td> <td></td> <td>n-pentyl</td> <td>ОН</td> <td>2-mercapto-3-pyridyl</td>			n-pentyl	ОН	2-mercapto-3-pyridyl	
S         n-pentyl         OH         6-mercapto-3-pyridyl           S         n-pentyl         OH         2-methylthio-3-pyridyl           S         n-pentyl         OH         4-methylthio-3-pyridyl           S         n-pentyl         OH         6-methylthio-3-pyridyl           S         n-pentyl         OH         6-dimethyl-3-pyridyl           S         n-pentyl         OH         2,6-dimethyl-3-pyridyl           S         n-pentyl         OH         2,6-diethyl-3-pyridyl           S         n-pentyl         OH         2,6-diethyl-3-pyridyl           S         n-pentyl         OH         2,6-diethyl-3-pyridyl           S         n-pentyl         OH         2,6-diethyl-3-pyridyl           S         n-pentyl         OH         2,6-diethoxy-3-pyridyl           S         n-pentyl         OH			n-pentyl	OH		
S         n-pentyl         OH         2-methylthio-3-pyridyl           S         n-pentyl         OH         4-methylthio-3-pyridyl           S         n-pentyl         OH         5-methylthio-3-pyridyl           S         n-pentyl         OH         6-methylthio-3-pyridyl           S         n-pentyl         OH         2,6-dimethyl-3-pyridyl           S         n-pentyl         OH         2,6-diethyl-3-pyridyl           S         n-pentyl         OH         5,6-diethoxy-3-pyridyl           S         n-pentyl         OH         5,6-diethoxy-3-pyridyl           S         n-pentyl         OH         2,6-diethoxy-3-pyridyl           S         n-pentyl         OH         2,6-diethoxy-3-pyridyl           S         n-pentyl         OH         2,6-diethoxy-3-pyridyl           S         n-pentyl         OH         2,6-diethoxy-3-pyridyl           S         n-pentyl <td< td=""><td></td><td></td><td>n-pentyl</td><td>ОН</td><td>5-mercapto-3-pyridyl</td></td<>			n-pentyl	ОН	5-mercapto-3-pyridyl	
S         n-pentyl         OH         4-methylthio-3-pyridyl           S         n-pentyl         OH         5-methylthio-3-pyridyl           S         n-pentyl         OH         6-methylthio-3-pyridyl           S         n-pentyl         OH         2,6-dimethyl-3-pyridyl           S         n-pentyl         OH         2,6-diethyl-3-pyridyl           S         n-pentyl         OH         2,6-diethyl-3-pyridyl           S         n-pentyl         OH         2,6-diethyl-3-pyridyl           S         n-pentyl         OH         2,6-diethoxy-3-pyridyl           S         n-pentyl         <			n-pentyl	ОН	6-mercapto-3-pyridyl	
S         n-pentyl         OH         5-methylthio-3-pyridyl           S         n-pentyl         OH         6-methylthio-3-pyridyl           S         n-pentyl         OH         2,6-dimethyl-3-pyridyl           S         n-pentyl         OH         2,6-dimethyl-3-pyridyl           S         n-pentyl         OH         2,6-diethyl-3-pyridyl           S         n-pentyl         OH         5,6-dimethoxy-3-pyridyl           S         n-pentyl         OH         5,6-diethoxy-3-pyridyl           S         n-pentyl         OH         2,6-diethoxy-3-pyridyl           S         n-pentyl         OH         5,6-diethoxy-3-pyridyl           S         n-pentyl         OH         2-chloro-6-methyl-3-pyridyl           S         n-pentyl			n-pentyl	ОН		
S         n-pentyl         OH         6-methylthio-3-pyridyl           S         n-pentyl         OH         2,6-dimethyl-3-pyridyl           S         n-pentyl         OH         5,6-dimethyl-3-pyridyl           S         n-pentyl         OH         2,6-diethyl-3-pyridyl           S         n-pentyl         OH         5,6-diethyl-3-pyridyl           S         n-pentyl         OH         2,6-diethoxy-3-pyridyl           S         n-pentyl         OH         5,6-diethoxy-3-pyridyl           S         n-pentyl         OH         5,6-diethoxy-3-pyridyl           S         n-pentyl         OH         5-chloro-6-methxy-3-pyridyl           S         n-pentyl         OH         2-chloro-6-methxy-3-pyridyl           S         n-pentyl <td></td> <td></td> <td>n-pentyl</td> <td>OH</td> <td>4-methylthio-3-pyridyl</td>			n-pentyl	OH	4-methylthio-3-pyridyl	
S         n-pentyl         OH         6-methylthio-3-pyridyl           S         n-pentyl         OH         2,6-dimethyl-3-pyridyl           S         n-pentyl         OH         5,6-dimethyl-3-pyridyl           S         n-pentyl         OH         2,6-diethyl-3-pyridyl           S         n-pentyl         OH         5,6-diethyl-3-pyridyl           S         n-pentyl         OH         5,6-diethoxy-3-pyridyl           S         n-pentyl         OH         2,6-diethoxy-3-pyridyl           S         n-pentyl         OH         5,6-diethoxy-3-pyridyl           S         n-pentyl         OH         5,6-diethoxy-3-pyridyl           S         n-pentyl         OH         2-chloro-6-methyl-3-pyridyl           S         n-pentyl         OH         2-chloro-6-methyl-3-pyridyl           S         n-pentyl <td></td> <td></td> <td>n-pentyl</td> <td>OH</td> <td>5-methylthio-3-pyridyl</td>			n-pentyl	OH	5-methylthio-3-pyridyl	
S         n-pentyl         OH         2,6-dimethyl-3-pyridyl           S         n-pentyl         OH         5,6-dimethyl-3-pyridyl           S         n-pentyl         OH         2,6-diethyl-3-pyridyl           S         n-pentyl         OH         5,6-diethyl-3-pyridyl           S         n-pentyl         OH         2,6-diethoxy-3-pyridyl           S         n-pentyl         OH         5,6-diethoxy-3-pyridyl           S         n-pentyl         OH         5-chloro-6-methxy-3-pyridyl           S         n-pentyl         OH         2-methyl-4-pyridyl           S         n-pentyl	ĺ	S	n-pentyl	OH		
S         n-pentyl         OH         2,6-diethyl-3-pyridyl           S         n-pentyl         OH         5,6-diethyl-3-pyridyl           S         n-pentyl         OH         2,6-diethyl-3-pyridyl           S         n-pentyl         OH         2,6-diethoxy-3-pyridyl           S         n-pentyl         OH         5,6-diethoxy-3-pyridyl           S         n-pentyl         OH         5,6-diethoxy-3-pyridyl           S         n-pentyl         OH         2-chloro-6-methoxy-3-pyridyl           S         n-pentyl         OH         2-chloro-6-methoxy-3-pyridyl           S         n-pentyl         OH         2-methyl-4-pyridyl           S         n-pentyl         OH         2-methyl-4-pyridyl           S         n-pentyl		S	n-pentyl	OH		
S         n-pentyl         OH         5,6-diethyl-3-pyridyl           S         n-pentyl         OH         2,6-dimethoxy-3-pyridyl           S         n-pentyl         OH         5,6-diethoxy-3-pyridyl           S         n-pentyl         OH         2,6-diethoxy-3-pyridyl           S         n-pentyl         OH         5,6-dichloro-3-pyridyl           S         n-pentyl         OH         5,6-dichloro-3-pyridyl           S         n-pentyl         OH         5-chloro-6-methoxy-3-pyridyl           S         n-pentyl         OH         5-chloro-6-methoxy-3-pyridyl           S         n-pentyl         OH         5-chloro-6-methoxy-3-pyridyl           S         n-pentyl         OH         2-chloro-6-methoxy-3-pyridyl           S         n-pentyl         OH         2-chloro-6-methoxy-3-pyridyl           S         n-pentyl         OH         2-chloro-6-methoxy-3-pyridyl           S         n-pentyl         OH         2-methyl-4-pyridyl           S         n-pentyl         OH         2-methyl-4-pyridyl           S         n-pentyl         OH         2-methoxy-4-pyridyl           S         n-pentyl         OH         2-chloro-4-pyridyl           S <td< td=""><td>ı</td><td></td><td>n-pentyl</td><td>ОН</td><td>5,6-dimethyl-3-pyridyl</td></td<>	ı		n-pentyl	ОН	5,6-dimethyl-3-pyridyl	
S         n-pentyl         OH         2,6-dimethoxy-3-pyridyl           S         n-pentyl         OH         5,6-dimethoxy-3-pyridyl           S         n-pentyl         OH         2,6-diethoxy-3-pyridyl           S         n-pentyl         OH         5,6-diethoxy-3-pyridyl           S         n-pentyl         OH         5,6-dichloro-3-pyridyl           S         n-pentyl         OH         5-chloro-6-mothoxy-3-pyridyl           S         n-pentyl         OH         5-chloro-6-mothoxy-3-pyridyl           S         n-pentyl         OH         5-chloro-6-mothoxy-3-pyridyl           S         n-pentyl         OH         2-chloro-6-mothoxy-3-pyridyl           S         n-pentyl         OH         2-methyl-4-pyridyl           S         n-pentyl         OH         2-methyl-4-pyridyl           S         n-pentyl         OH         2-chloro-4-pyridyl           S		S	n-pentyl	OH	2,6-diethyl-3-pyridyl	
S         n-pentyl         OH         5,6-dimethoxy-3-pyridyl           S         n-pentyl         OH         2,6-diethoxy-3-pyridyl           S         n-pentyl         OH         5,6-diethoxy-3-pyridyl           S         n-pentyl         OH         2,6-dichloro-3-pyridyl           S         n-pentyl         OH         5-chloro-6-mothoxy-3-pyridyl           S         n-pentyl         OH         5-chloro-6-mothoxy-3-pyridyl           S         n-pentyl         OH         5-chloro-6-mothoxy-3-pyridyl           S         n-pentyl         OH         2-chloro-6-mothoxy-3-pyridyl           S         n-pentyl         OH         2-chloro-6-mothoxy-3-pyridyl           S         n-pentyl         OH         2-chloro-6-mothoxy-3-pyridyl           S         n-pentyl         OH         2-methyl-3-pyridyl           S         n-pentyl         OH         2-methyl-4-pyridyl           S         n-pentyl         OH         2-methyl-4-pyridyl           S         n-pentyl         OH         2-ethoxy-4-pyridyl           S         n-pentyl         OH         2-chloro-4-pyridyl           S         n-pentyl         OH         2-dimethylamino-4-pyridyl           S			n-pentyl	OH	5,6-diethyl-3-pyridyl	
S         n-pentyl         OH         5,6-dimethoxy-3-pyridyl           S         n-pentyl         OH         2,6-diethoxy-3-pyridyl           S         n-pentyl         OH         5,6-diethoxy-3-pyridyl           S         n-pentyl         OH         2,6-dichloro-3-pyridyl           S         n-pentyl         OH         5-chloro-6-methoxy-3-pyridyl           S         n-pentyl         OH         5-chloro-6-methoxy-3-pyridyl           S         n-pentyl         OH         2-chloro-6-methyl-3-pyridyl           S         n-pentyl         OH         2-chloro-6-methyl-3-pyridyl           S         n-pentyl         OH         2-chloro-6-methyl-3-pyridyl           S         n-pentyl         OH         2-methyl-3-pyridyl           S         n-pentyl         OH         2-methyl-4-pyridyl           S         n-pentyl         OH         2-methoxy-4-pyridyl           S         n-pentyl         OH         2-chloro-4-pyridyl           S         n-pentyl         OH         2-chloro-4-pyridyl           S         n-pentyl         OH         2-piperidino-4-pyridyl           S         n-pentyl         OH         2-piperidino-4-pyridyl           S         n-pentyl <td></td> <td>S</td> <td>n-pentyl</td> <td>ОН</td> <td>2,6-dimethoxy-3-pyridyl</td>		S	n-pentyl	ОН	2,6-dimethoxy-3-pyridyl	
S n-pentyl OH 5,6-diethoxy-3-pyridyl S n-pentyl OH 2,6-dichloro-3-pyridyl S n-pentyl OH 5,6-dichloro-3-pyridyl S n-pentyl OH 5-dichloro-3-pyridyl S n-pentyl OH 5-chloro-6-methoxy-3-pyridyl S n-pentyl OH 5-chloro-6-methoxy-3-pyridyl S n-pentyl OH 2-chloro-6-methyl-3-pyridyl S n-pentyl OH 2-chloro-2-methyl-3-pyridyl S n-pentyl OH 2-methyl-4-pyridyl S n-pentyl OH 2-methyl-4-pyridyl S n-pentyl OH 2-methoxy-4-pyridyl S n-pentyl OH 2-methoxy-4-pyridyl S n-pentyl OH 2-chloro-4-pyridyl S n-pentyl OH 2-dimethylamino-4-pyridyl S n-pentyl OH 2-dimethylamino-4-pyridyl S n-pentyl OH 2-piperidino-4-pyridyl S n-pentyl OH 2-morpholino-4-pyridyl S n-pentyl OH 2-morpholino-4-pyridyl S n-pentyl OH 2-methylthio-4-pyridyl S n-pentyl OH 2-methylthio-4-pyridyl S n-pentyl OH 2-methylthio-4-pyridyl S n-pentyl OH 5-methyl-2-pyrazinyl S n-pentyl OH 5-methyl-2-pyrazinyl S n-pentyl OH 5-methoxy-2-pyrazinyl S n-pentyl OH 5-methoxy-2-pyrazinyl S n-pentyl OH 5-chloro-2-pyrazinyl S n-pentyl OH 6-methoxy-2-pyrazinyl			n-pentyl	OH		
S n-pentyl OH 2,6-dichloro-3-pyridyl S n-pentyl OH 5,6-dichloro-3-pyridyl S n-pentyl OH 5-chloro-6-mothoxy-3-pyridyl S n-pentyl OH 5-chloro-6-mothoxy-3-pyridyl S n-pentyl OH 2-chloro-6-methyl-3-pyridyl S n-pentyl OH 2-chloro-2-methyl-3-pyridyl S n-pentyl OH 2-methyl-4-pyridyl S n-pentyl OH 2-methyl-4-pyridyl S n-pentyl OH 2-methoxy-4-pyridyl S n-pentyl OH 2-methoxy-4-pyridyl S n-pentyl OH 2-methoxy-4-pyridyl S n-pentyl OH 2-chloro-4-pyridyl S n-pentyl OH 2-chloro-4-pyridyl S n-pentyl OH 2-dimethylamino-4-pyridyl S n-pentyl OH 2-dimethylamino-4-pyridyl S n-pentyl OH 2-piperidino-4-pyridyl S n-pentyl OH 2-morpholino-4-pyridyl S n-pentyl OH 2-morpholino-4-pyridyl S n-pentyl OH 2-methylthio-4-pyridyl S n-pentyl OH 2-methylthio-4-pyridyl S n-pentyl OH 5-methyl-2-pyrazinyl S n-pentyl OH 5-methyl-2-pyrazinyl S n-pentyl OH 5-methoxy-2-pyrazinyl S n-pentyl OH 5-methoxy-2-pyrazinyl S n-pentyl OH 5-chloro-2-pyrazinyl S n-pentyl OH 5-chloro-2-pyrazinyl S n-pentyl OH 5-chloro-2-pyrazinyl S n-pentyl OH 5-chloro-2-pyrazinyl S n-pentyl OH 6-methoxy-2-pyrazinyl S n-pentyl OH 6-methoxy-2-pyrazinyl			n-pentyl	OH	2,6-diethoxy-3-pyridyl	
S n-pentyl OH 5,6-dichloro-3-pyridyl S n-pentyl OH 5,6-dichloro-3-pyridyl S n-pentyl OH 5-chloro-6-mothoxy-3-pyridyl S n-pentyl OH 5-chloro-6-mothoxy-3-pyridyl S n-pentyl OH 5-chloro-6-ethoxy-3-pyridyl S n-pentyl OH 2-chloro-6-methyl-3-pyridyl S n-pentyl OH 2-chloro-2-methyl-3-pyridyl S n-pentyl OH 2-methyl-4-pyridyl S n-pentyl OH 2-methoxy-4-pyridyl S n-pentyl OH 2-methoxy-4-pyridyl S n-pentyl OH 2-chloro-4-pyridyl S n-pentyl OH 2-chloro-4-pyridyl S n-pentyl OH 2-dimethylamino-4-pyridyl S n-pentyl OH 2-piperidino-4-pyridyl S n-pentyl OH 2-morpholino-4-pyridyl S n-pentyl OH 2-morpholino-4-pyridyl S n-pentyl OH 2-methylthio-4-pyridyl S n-pentyl OH 2-methylthio-4-pyridyl S n-pentyl OH 2-methylthio-4-pyridyl S n-pentyl OH 5-methyl-2-pyrazinyl S n-pentyl OH 5-methyl-2-pyrazinyl S n-pentyl OH 5-methoxy-2-pyrazinyl S n-pentyl OH 5-methoxy-2-pyrazinyl S n-pentyl OH 5-chloro-2-pyrazinyl S n-pentyl OH 6-methyl-2-pyrazinyl S n-pentyl OH 6-methyl-2-pyrazinyl	1		n-pentyl	ОН		
S n-pentyl OH 5,6-dichloro-3-pyridyl S n-pentyl OH 5-chloro-6-methoxy-3-pyridyl S n-pentyl OH 5-chloro-6-methoxy-3-pyridyl S n-pentyl OH 2-chloro-6-methyl-3-pyridyl S n-pentyl OH 2-chloro-6-methyl-3-pyridyl S n-pentyl OH 6-chloro-2-methyl-3-pyridyl S n-pentyl OH 2-methyl-4-pyridyl S n-pentyl OH 2-methoxy-4-pyridyl S n-pentyl OH 2-methoxy-4-pyridyl S n-pentyl OH 2-chloro-4-pyridyl S n-pentyl OH 2-dimethylamino-4-pyridyl S n-pentyl OH 2-dimethylamino-4-pyridyl S n-pentyl OH 2-piperidino-4-pyridyl S n-pentyl OH 2-morpholino-4-pyridyl S n-pentyl OH 2-morpholino-4-pyridyl S n-pentyl OH 2-methylthio-4-pyridyl S n-pentyl OH 2-methylthio-4-pyridyl S n-pentyl OH 5-methyl-2-pyrazinyl S n-pentyl OH 5-methyl-2-pyrazinyl S n-pentyl OH 5-methoxy-2-pyrazinyl S n-pentyl OH 5-methoxy-2-pyrazinyl S n-pentyl OH 5-chloro-2-pyrazinyl			n-pentyl	OH		
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S n-pentyl OH 2-chloro-6-methyl-3-pyridyl S n-pentyl OH 6-chloro-2-methyl-3-pyridyl S n-pentyl OH 2-methyl-4-pyridyl S n-pentyl OH 2-methoxy-4-pyridyl S n-pentyl OH 2-methoxy-4-pyridyl S n-pentyl OH 2-ethoxy-4-pyridyl S n-pentyl OH 2-chloro-4-pyridyl S n-pentyl OH 2-dimethylamino-4-pyridyl S n-pentyl OH 2-dimethylamino-4-pyridyl S n-pentyl OH 2-piperidino-4-pyridyl S n-pentyl OH 2-morpholino-4-pyridyl S n-pentyl OH 2-morpholino-4-pyridyl S n-pentyl OH 2-methylthio-4-pyridyl S n-pentyl OH 2-methylthio-4-pyridyl S n-pentyl OH 5-methyl-2-pyrazinyl S n-pentyl OH 5-methyl-2-pyrazinyl S n-pentyl OH 5-methoxy-2-pyrazinyl S n-pentyl OH 5-ethoxy-2-pyrazinyl S n-pentyl OH 5-chloro-2-pyrazinyl S n-pentyl OH 5-chloro-2-pyrazinyl S n-pentyl OH 5-methyl-2-pyrazinyl S n-pentyl OH 5-chloro-2-pyrazinyl S n-pentyl OH 5-chloro-2-pyrazinyl S n-pentyl OH 6-methyl-2-pyrazinyl S n-pentyl OH 6-methyl-2-pyrazinyl			n-pentyl	OH	5-chloro-6-ethoxy-3-pyridyl	
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S n-pentyl OH 2-ethoxy-4-pyridyl S n-pentyl OH 2-chloro-4-pyridyl S n-pentyl OH 2-dimethylamino-4-pyridyl S n-pentyl OH 2-(1-pyrrolidinyl)-4-pyridyl S n-pentyl OH 2-piperidino-4-pyridyl S n-pentyl OH 2-morpholino-4-pyridyl S n-pentyl OH 2-morpholino-4-pyridyl S n-pentyl OH 2-methylthio-4-pyridyl S n-pentyl OH 2-pyrazinyl S n-pentyl OH 5-methyl-2-pyrazinyl S n-pentyl OH 5-methyl-2-pyrazinyl S n-pentyl OH 5-methoxy-2-pyrazinyl S n-pentyl OH 5-ethoxy-2-pyrazinyl S n-pentyl OH 5-chloro-2-pyrazinyl S n-pentyl OH 5-chloro-2-pyrazinyl S n-pentyl OH 6-methyl-2-pyrazinyl S n-pentyl OH 6-methyl-2-pyrazinyl S n-pentyl OH 6-methyl-2-pyrazinyl	Ĺ		n-pentyl			
S n-pentyl OH 2-chloro-4-pyridyl S n-pentyl OH 2-dimethylamino-4-pyridyl S n-pentyl OH 2-(1-pyrrolidinyl)-4-pyridyl S n-pentyl OH 2-piperidino-4-pyridyl S n-pentyl OH 2-morpholino-4-pyridyl S n-pentyl OH 2-morpholino-4-pyridyl S n-pentyl OH 2-methylthio-4-pyridyl S n-pentyl OH 2-pyrazinyl S n-pentyl OH 5-methyl-2-pyrazinyl S n-pentyl OH 5-ethyl-2-pyrazinyl S n-pentyl OH 5-methoxy-2-pyrazinyl S n-pentyl OH 5-ethoxy-2-pyrazinyl S n-pentyl OH 5-chloro-2-pyrazinyl S n-pentyl OH 5-chloro-2-pyrazinyl S n-pentyl OH 6-methyl-2-pyrazinyl S n-pentyl OH 6-methyl-2-pyrazinyl S n-pentyl OH 6-methyl-2-pyrazinyl			n-pentyl	OH		
S n-pentyl OH 2-dimethylamino-4-pyridyl S n-pentyl OH 2-(1-pyrrolidinyl)-4-pyridyl S n-pentyl OH 2-piperidino-4-pyridyl S n-pentyl OH 2-morpholino-4-pyridyl S n-pentyl OH 2-methylthio-4-pyridyl S n-pentyl OH 2-pyrazinyl S n-pentyl OH 5-methyl-2-pyrazinyl S n-pentyl OH 5-ethyl-2-pyrazinyl S n-pentyl OH 5-methoxy-2-pyrazinyl S n-pentyl OH 5-methoxy-2-pyrazinyl S n-pentyl OH 5-chloro-2-pyrazinyl S n-pentyl OH 5-chloro-2-pyrazinyl S n-pentyl OH 6-methyl-2-pyrazinyl S n-pentyl OH 6-methyl-2-pyrazinyl S n-pentyl OH 6-methyl-2-pyrazinyl	Ĺ		n-pentyl	OH		
S         n-pentyl         OH         2-(1-pyrrolidinyl)-4-pyridyl           S         n-pentyl         OH         2-piperidino-4-pyridyl           S         n-pentyl         OH         2-morpholino-4-pyridyl           S         n-pentyl         OH         2-methylthio-4-pyridyl           S         n-pentyl         OH         2-pyrazinyl           S         n-pentyl         OH         5-methyl-2-pyrazinyl           S         n-pentyl         OH         5-methoxy-2-pyrazinyl           S         n-pentyl         OH         5-ethoxy-2-pyrazinyl           S         n-pentyl         OH         5-chloro-2-pyrazinyl           S         n-pentyl         OH         6-methyl-2-pyrazinyl           S         n-pentyl         OH         6-methyl-2-pyrazinyl			n-pentyl	OH		
S         n-pentyl         OH         2-piperidino-4-pyridyl           S         n-pentyl         OH         2-morpholino-4-pyridyl           S         n-pentyl         OH         2-methylthio-4-pyridyl           S         n-pentyl         OH         2-pyrazinyl           S         n-pentyl         OH         5-methyl-2-pyrazinyl           S         n-pentyl         OH         5-methoxy-2-pyrazinyl           S         n-pentyl         OH         5-ethoxy-2-pyrazinyl           S         n-pentyl         OH         5-chloro-2-pyrazinyl           S         n-pentyl         OH         6-methyl-2-pyrazinyl           S         n-pentyl         OH         6-methyl-2-pyrazinyl	Ĺ		n-pentyl	OH		
S         n-pentyl         OH         2-morpholino-4-pyridyl           S         n-pentyl         OH         2-methylthio-4-pyridyl           S         n-pentyl         OH         2-pyrazinyl           S         n-pentyl         OH         5-methyl-2-pyrazinyl           S         n-pentyl         OH         5-methoxy-2-pyrazinyl           S         n-pentyl         OH         5-ethoxy-2-pyrazinyl           S         n-pentyl         OH         5-chloro-2-pyrazinyl           S         n-pentyl         OH         6-methyl-2-pyrazinyl           S         n-pentyl         OH         6-methoxy-2-pyrazinyl	Ĺ		n-pentyl	OH		
S         n-pentyl         OH         2-methylthio-4-pyridyl           S         n-pentyl         OH         2-pyrazinyl           S         n-pentyl         OH         5-methyl-2-pyrazinyl           S         n-pentyl         OH         5-methoxy-2-pyrazinyl           S         n-pentyl         OH         5-ethoxy-2-pyrazinyl           S         n-pentyl         OH         5-chloro-2-pyrazinyl           S         n-pentyl         OH         6-methyl-2-pyrazinyl           S         n-pentyl         OH         6-methoxy-2-pyrazinyl	Ĺ		n-pentyl	OH		
S         n-pentyl         OH         2-pyrazinyl           S         n-pentyl         OH         5-methyl-2-pyrazinyl           S         n-pentyl         OH         5-ethyl-2-pyrazinyl           S         n-pentyl         OH         5-methoxy-2-pyrazinyl           S         n-pentyl         OH         5-chloro-2-pyrazinyl           S         n-pentyl         OH         6-methyl-2-pyrazinyl           S         n-pentyl         OH         6-methoxy-2-pyrazinyl	ľ	ł	n-pentyl	OH		
S         n-pentyl         OH         5-methyl-2-pyrazinyl           S         n-pentyl         OH         5-ethyl-2-pyrazinyl           S         n-pentyl         OH         5-methoxy-2-pyrazinyl           S         n-pentyl         OH         5-ethoxy-2-pyrazinyl           S         n-pentyl         OH         5-chloro-2-pyrazinyl           S         n-pentyl         OH         6-methyl-2-pyrazinyl           S         n-pentyl         OH         6-methoxy-2-pyrazinyl			n-pentyl	OH	· · · · · · · · · · · · · · · · · · ·	
S         n-pentyl         OH         5-ethyl-2-pyrazinyl           S         n-pentyl         OH         5-methoxy-2-pyrazinyl           S         n-pentyl         OH         5-ethoxy-2-pyrazinyl           S         n-pentyl         OH         5-chloro-2-pyrazinyl           S         n-pentyl         OH         6-methyl-2-pyrazinyl           S         n-pentyl         OH         6-methoxy-2-pyrazinyl	Ĺ		n-pentyl	ОН		
S         n-pentyl         OH         5-methoxy-2-pyrazinyl           S         n-pentyl         OH         5-ethoxy-2-pyrazinyl           S         n-pentyl         OH         5-chloro-2-pyrazinyl           S         n-pentyl         OH         6-methyl-2-pyrazinyl           S         n-pentyl         OH         6-methoxy-2-pyrazinyl			n-pentyl	ОН		
S         n-pentyl         OH         5-ethoxy-2-pyrazinyl           S         n-pentyl         OH         5-chloro-2-pyrazinyl           S         n-pentyl         OH         6-methyl-2-pyrazinyl           S         n-pentyl         OH         6-methoxy-2-pyrazinyl			n-pentyl	ОН		
S n-pentyl OH 5-chloro-2-pyrazinyl S n-pentyl OH 6-methyl-2-pyrazinyl S n-pentyl OH 6-methoxy-2-pyrazinyl	_		n-pentyl	ОН		
S n-pentyl OH 6-methyl-2-pyrazinyl S n-pentyl OH 6-methoxy-2-pyrazinyl	_		n-pentyl	ОН		
S n-pentyl OH 6-methoxy-2-pyrazinyl		1	n-pentyl			
			n-pentyl	ОН		
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X	R <sup>1</sup>	R <sup>2</sup>	Y
S	n-pentyl	OCOOMe	2-pyridyl
S	n-pentyl	OCOOMe	3-pyridyl
S	n-pentyl	OCOOMe	4-pyridyl
S	n-pentyl	OCOOMe	2-methyl-3-pyridyl
S	n-pentyl	OCOOMe	4-methyl-3-pyridyl
S	n-pentyl	OCOOMe	5-methyl-3-pyridyl
S	n-pentyl	OCOOMe	6-methyl-3-pyridyl
S	n-pentyl	OCOOMe	2-ethyl-3-pyridyl
S	n-pentyl	OCOOMe	4-ethyl-3-pyridyl
S	n-pentyl	OCOOMe	5-ethyl-3-pyridyl
S	n-pentyl	OCOOMe	6-ethyl-3-pyridyl
S	n-pentyl	OCOOMe	2-methoxy-3-pyridyl
S	n-pentyl	OCOOMe	4-methoxy-3-pyridyl
S.	n-pentyl	OCOOMe	5-methoxy-3-pyridyl
S	n-pentyl	OCOOMe	6-methoxy-3-pyridyl
S	n-pentyl	OCOOMe	2-ethoxy-3-pyridyl
S	n-pentyl	OCOOMe	4-ethoxy-3-pyridyl
S	n-pentyl	OCOOMe	5-ethoxy-3-pyridyl
S	n-pentyl	OCOOMe	6-ethoxy-3-pyridyl
S	n-pentyl	OCOOMe	2-chloro-3-pyridyl
S	n-pentyl	OCOOMe	4-chloro-3-pyridyl
S	n-pentyl	OCOOMe ·	5-chloro-3-pyridyl
S	n-pentyl	OCOOMe	6-chloro-3-pyridyl
S	n-pentyl	OCOOMe	2-fluoro-3-pyridyl
S	n-pentyl	OCOOMe	4-fluoro-3-pyridyl
S	n-pentyl	OCOOMe	5-fluoro-3-pyridyl
S	n-pentyl	OCOOMe	6-fluoro-3-pyridyl
S	n-pentyl	OCOOMe	2-dimethylamino-3-pyridyl
S	n-pentyl	OCOOMe	4-dimethylamino-3-pyridyl
S	n-pentyl	OCOOMe	5-dimethylamino-3-pyridyl
S	n-pentyl	OCOOMe	6-dimethylamino-3-pyridyl
S	n-pentyl	OCOOMe	2-(1-pyrrolidinyl)-3-pyridyl
S	n-pentyl	OCOOMe	3-(1-pyrrolidinyl)-3-pyridyl
S	n-pentyl	OCOOMe	5-(1-pyrrolidinyl)-3-pyridyl
S	n-pentyl	OCOOMe	6-(1-pyrrolidinyl)-3-pyridyl
S	n-pentyl	OCOOMe	2-piperidino-3-pyridyl
S	n-pentyl	OCOOMe	4-piperidino-3-pyridyl
S	n-pentyl	OCOOMe	5-piperidino-3-pyridyl
s	n-pentyl	OCOOMe	6-piperidino-3-pyridyl
S	n-pentyl	OCOOMe	2-morpholino-3-pyridyl
S		OCOOMe	
S	n-pentyl n-pentyl	OCOOMe	4-morpholino-3-pyridyl
S	n-pentyl	OCOOMe OCOOMe	5-morpholino-3-pyridyl
S	n-pentyl	OCOOMe	6-morpholino-3-pyridyl
S	n-pentyl n-pentyl		2-hydroxy-3-pyridyl
S		OCOOMe	4-hydroxy-3-pyridyl
S	n-pentyl	OCOOMe	5-hydroxy-3-pyridyl
G	n-pentyl	OCOOMe	6-hydroxy-3-pyridyl

S	n-pentyl	OCOOMe	2-mercapto-3-pyridyl
S	n-pentyl	OCOOMe	4-mercapto-3-pyridyl
S	n-pentyl	OCOOMe	5-mercapto-3-pyridyl
S	n-pentyl	OCOOMe	6-mercapto-3-pyridyl
S	n-pentyl	OCOOMe	2-methylthio-3-pyridyl
S	n-pentyl	OCOOMe	4-methylthio-3-pyridyl
S	n-pentyl	OCOOMe	5-methylthio-3-pyridyl
S	n-pentyl	OCOOMe	6-methylthio-3-pyridyl
S	n-pentyl	OCOOMe	2,6-dimethyl-3-pyridyl
S	n-pentyl	OCOOMe	5,6-dimethyl-3-pyridyl
S	n-pentyl	OCOOMe	2,6-diethyl-3-pyridyl
S	n-pentyl	OCOOMe	5,6-diethyl-3-pyridyl
S	n-pentyl	OCOOMe	2,6-dimethoxy-3-pyridyl
S	n-pentyl	OCOOMe	5,6-dimethoxy-3-pyridyl
S	n-pentyl	OCOOMe	2,6-diethoxy-3-pyridyl
S	n-pentyl	OCOOMe	5,6-diethoxy-3-pyridyl
S	n-pentyl	OCOOMe	2,6-dichloro-3-pyridyl
S	n-pentyl	OCOOMe	5,6-dichloro-3-pyridyl
S	n-pentyl	OCOOMe	5-chloro-6-methoxy-3-pyridy1
S	n-pentyl	OCOOMe	5-chloro-6-ethoxy-3-pyridyl
S	n-pentyl	OCOOMe	2-chloro-6-methyl-3-pyridyl
S	n-pentyl	OCOOMe	6-chloro-2-methyl-3-pyridyl
S	n-pentyl	OCOOMe	2-methyl-4-pyridyl
S	n-pentyl	OCOOMe	2-ethyl-4-pyridyl
S	n-pentyl	OCOOMe	2-methoxy-4-pyridyl
S	n-pentyl	OCOOMe	2-ethoxy-4-pyridyl
S	n-pentyl	ОСООМе	2-chloro-4-pyridyl
S	n-pentyl	OCOOMe	2-dimethylamino-4-pyridyl
S	n-pentyl	OCOOMe	2-(1-pyrrolidinyl)-4-pyridyl
S	n-pentyl	OCOOMe	2-piperidino-4-pyridyl
S	n-pentyl	OCOOMe	2-morpholino-4-pyridyl
S	n-pentyl	ОСООМе	2-methylthio-4-pyridyl
S	n-pentyl	ОСООМе	2-pyrazinyl
S	n-pentyl	OCOOMe	5-methyl-2-pyrazinyl
S	n-pentyl	OCOOMe	5-ethyl-2-pyrazinyl
S	n-pentyl	OCOOMe	5-methoxy-2-pyrazinyl
S	n-pentyl	OCOOMe	5-ethoxy-2-pyrazinyl
S	n-pentyl	OCOOMe	5-chloro-2-pyrazinyl
S	n-pentyl	OCOOMe	6-methyl-2-pyrazinyl
S	n-pentyl	OCOOMe	6-methoxy-2-pyrazinyl
S	n-pentyl	OCOOMe	6-chloro-2-pyrazinyl

X				***************************************
S				
S		····		2-pyridyl
S		n-pentyl	OCOOEt	3-pyridyl
S		n-pentyl	OCOOEt	4-pyridyl
S		n-pentyl	OCOOEt	2-methyl-3-pyridyl
S		n-pentyl	OCOOEt	4-methyl-3-pyridyl
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S n-pentyl OCOOEt 5-hydroxy-3-pyridyl		······································		
диниу о рухину				
6-hydroxy-3-pyridyl				
	i)	n-pentyl	OCOOEt	6-hydroxy-3-pyridyl

S	n-pentyl	OCOOEt	2-mercapto-3-pyridyl
S	n-pentyl	OCOOEt	4-mercapto-3-pyridyl
S	n-pentyl	OCOOEt	5-mercapto-3-pyridyl
S	n-pentyl	OCOOEt	6-mercapto-3-pyridyl
S	n-pentyl	OCOOEt	2-methylthio-3-pyridyl
S	n-pentyl	OCOOEt	4-methylthio-3-pyridyl
S	n-pentyl	OCOOEt	5-methylthio-3-pyridyl
S	n-pentyl	OCOOEt	6-methylthio-3-pyridyl
S	n-pentyl	OCOOEt	2,6-dimethyl-3-pyridyl
S	n-pentyl	OCOOEt	5,6-dimethyl-3-pyridyl
S	n-pentyl	OCOOEt	2,6-diethyl-3-pyridyl
S	n-pentyl	OCOOEt	5,6-diethyl-3-pyridyl
S	n-pentyl	OCOOEt	2,6-dimethoxy-3-pyridyl
S	n-pentyl	OCOOEt	5,6-dimethoxy-3-pyridyl
S	n-pentyl	OCOOEt	2,6-diethoxy-3-pyridyl
S	n-pentyl	OCOOEt	5,6-diethoxy-3-pyridyl
S	n-pentyl	OCOOEt	2,6-dichloro-3-pyridyl
S	n-pentyl	OCOOEt	5,6-dichloro-3-pyridyl
S	n-pentyl	OCOOEt	5-chloro-6-methoxy-3-pyridyl
S	n-pentyl	OCOOEt	5-chloro-6-ethoxy-3-pyridyl
S	n-pentyl	OCOOEt	2-chloro-6-methyl-3-pyridyl
S	n-pentyl	OCOOEt	6-chloro-2-methyl-3-pyridyl
S	n-pentyl	OCOOEt	2-methyl-4-pyridyl
Ø	n-pentyl	OCOOEt	2-ethyl-4-pyridyl
S	n-pentyl	OCOOEt	2-methoxy-4-pyridyl
S	n-pentyl	OCOOEt	2-ethoxy-4-pyridyl
S	n-pentyl	OCOOEt	2-chloro-4-pyridyl
S	n-pentyl	OCOOEt	2-dimethylamino-4-pyridyl
S	n-pentyl	OCOOEt	2-(1-pyrrolidinyl)-4-pyridyl
S	n-pentyl	OCOOEt	2-piperidino-4-pyridyl
S	n-pentyl	OCOOEt	2-morpholino-4-pyridyl
S	n-pentyl	OCOOEt	2-methylthio-4-pyridyl
S	n-pentyl	OCOOEt	2-pyrazinyl
S	n-pentyl	OCOOEt	5-methyl-2-pyrazinyl
S	n-pentyl	OCOOEt	5-ethyl-2-pyrazinyl
S	n-pentyl	OCOOEt	5-methoxy-2-pyrazinyl
S	n-pentyl	OCOOEt	5-ethoxy-2-pyrazinyl
S	n-pentyl	OCOOEt	5-chloro-2-pyrazinyl
S	n-pentyl	OCOOEt	6-methyl-2-pyrazinyl
S	n-pentyl	OCOOEt	6-methoxy-2-pyrazinyl
S	n-pentyl	OCOOEt	6-chloro-2-pyrazinyl

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X	R <sup>1</sup>	R <sup>2</sup>	Y
NH	2-methoxyethyl	ОН	3-pyridyl
NH	2-methoxyethyl	OH	4-pyridyl
NH	2-methoxyethyl	OH	2-methyl-3-pyridyl
NH	2-methoxyethyl	OH	6-methyl-3-pyridyl
NH	2-methoxyethyl	ОН	2-ethyl-3-pyridyl
NH	2-methoxyethyl	OH	6-ethyl-3-pyridyl
NH	2-methoxyethyl	OH	6-methoxy-3-pyridyl
NH	2-methoxyethyl	OH	6-ethoxy-3-pyridyl
NH	2-methoxyethyl	OH	2-chloro-3-pyridyl
NH	2-methoxyethyl	ОН	6-chloro-3-pyridyl
NH	2-methoxyethyl	OH	5,6-dimethyl-3-pyridyl
NH	2-methoxyethyl	OH	5,6-dimethoxy-3-pyridyl
NH	2-methoxyethyl	OH	5,6-dichloro-3-pyridyl
NH	2-methoxyethyl	ОН	6-dimethylamino-3-pyridyl
NH	2-methoxyethyl	ОН	6-(1-pyrrolidinyl)-3-pyridyl
HN	2-methoxyethyl	OH	6-piperidino-3-pyridyl
NH	2-methoxyethyl	ОН	6-morpholino-3-pyridyl
NH	2-methoxyethyl	ОН	6-methylthio-3-pyridyl
NH	2-methoxyethyl	ОН	2-pyrazinyl
NH	2-methoxyethyl	ОН	5-methyl-2-pyrazinyl
NH	3-methoxypropyl	OH	3-pyridyl
NH	3-methoxypropyl	ОН	4-pyridyl
NH	3-methoxypropyl	OH	2-methyl-3-pyridyl
NH	3-methoxypropyl	OH	6-methyl-3-pyridyl
NH	3-methoxypropyl	OH	2-ethyl-3-pyridyl
ИH	3-methoxypropyl	ОН	6-ethyl-3-pyridyl
NH	3-methoxypropyl	OH	2-methoxy-3-pyridyl
NH	3-methoxypropyl	OH	6-methoxy-3-pyridyl
NH	3-methoxypropyl	OH	6-ethoxy-3-pyridyl
NH	3-methoxypropyl	OH	2-chloro-3-pyridyl
NH	3-methoxypropyl	ОН	6-chloro-3-pyridyl
NH	3-methoxypropyl	OH	5,6-dimethyl-3-pyridyl
NH	3-methoxypropyl	OH	5,6-dimethoxy-3-pyridyl
NH	3-methoxypropyl	OH	5,6-dichloro-3-pyridyl
NH	3-methoxypropyl	OH	6-dimethylamino-3-pyridyl
NH	3-methoxypropyl	ОН	6-(1-pyrrolidinyl)-3-pyridyl
NH	3-methoxypropyl	ОН	6-piperidino-3-pyridyl
NH	3-methoxypropyl	OH	6-morpholino-3-pyridyl
NH	3-methoxypropyl	OH	6-methylthio-3-pyridyl
NH	3-methoxypropyl	ОН	2-pyrazinyl
NH	3-methoxypropyl	OH	5-methyl-2-pyrazinyl
		L	

X	R <sup>1</sup>	$\mathbb{R}^2$	Y
0	2-methoxyethyl	OH	3-pyridyl
0	2-methoxyethyl	OH	4-pyridyl
0	2-methoxyethyl	OH	2-methyl-3-pyridyl
0	2-methoxyethyl	OH	6-methyl-3-pyridyl
0	2-methoxyethyl	OH	2-ethyl-3-pyridyl
0	2-methoxyethyl	OH	6-ethyl-3-pyridyl
O	2-methoxyethyl	OH	6-methoxy-3-pyridyl
Ö	2-methoxyethyl	OH	6-ethoxy-3-pyridyl
0	2-methoxyethyl	OН	2-chloro-3-pyridyl
0	2-methoxyethyl	OH	6-chloro-3-pyridyl
0	2-methoxyethyl	ОН	5,6-dimethyl-3-pyridyl
0	2-methoxyethyl	ОН	5,6-dimethoxy-3-pyridyl
0	2-methoxyethyl	ОН	5,6-dichloro-3-pyridyl
0	2-methoxyethyl	OH ·	6-dimethylamino-3-pyridyl
0	2-methoxyethyl	ОН	6-(1-pyrrolidinyl)-3-pyridyl
0	2-methoxyethyl	ОН	6-piperidino-3-pyridyl
0	2-methoxyethyl	ОН	6-morpholino-3-pyridyl
0	2-methoxyethyl	ОН	6-methylthio-3-pyridyl
0	2-methoxyethyl	OH	2-pyrazinyl
0	2-methoxyethyl	ОН	5-methyl-2-pyrazinyl
0	3-methoxypropyl	OH	3-pyridyl
0	3-methoxypropyl	ОН	4-pyridyl
0	3-methoxypropyl	ОН	2-methyl-3-pyridyl
0	3-methoxypropyl	ОН	6-methyl-3-pyridyl
0	3-methoxypropyl	OH	2-ethyl-3-pyridyl
0	3-methoxypropyl	OH	6-ethyl-3-pyridyl
0	3-methoxypropyl	OH	2-methoxy-3-pyridyl
0	3-methoxypropyl	ОН	6-methoxy-3-pyridyl
0	3-methoxypropyl	ОН	6-ethoxy-3-pyridyl
0	3-methoxypropyl	ОН	2-chloro-3-pyridyl
0	3-methoxypropyl	ОН	6-chloro-3-pyridyl
0	3-methoxypropyl	ОН	5,6-dimethyl-3-pyridyl
0	3-methoxypropyl	OH	5,6-dimethoxy-3-pyridyl
0	3-methoxypropyl	ОН	5,6-dichloro-3-pyridyl
0	3-methoxypropyl	OH	6-dimethylamino-3-pyridyl
0	3-methoxypropyl	OH .	6-(1-pyrrolidinyl)-3-pyridyl
O	3-methoxypropyl	ОН	6-piperidino-3-pyridyl
0	3-methoxypropyl	ОН	6-morpholino-3-pyridyl
0	3-methoxypropyl	ОН	6-methylthio-3-pyridyl
0	3-methoxypropyl	OH	2-pyrazinyl
0	3-methoxypropyl	OH	5-methyl-2-pyrazinyl

X         R¹         R²         Y           S         2-methoxyethyl         OH         3-pyridyl           S         2-methoxyethyl         OH         4-pyridyl           S         2-methoxyethyl         OH         2-methyl-3-pyridyl           S         2-methoxyethyl         OH         6-methyl-3-pyridyl           S         2-methoxyethyl         OH         6-ethyl-3-pyridyl           S         2-methoxyethyl         OH         6-methoxy-3-pyridyl
S 2-methoxyethyl OH 4-pyridyl S 2-methoxyethyl OH 2-methyl-3-pyridyl S 2-methoxyethyl OH 6-methyl-3-pyridyl S 2-methoxyethyl OH 2-ethyl-3-pyridyl S 2-methoxyethyl OH 6-ethyl-3-pyridyl S 2-methoxyethyl OH 6-methoxy-3-pyridyl S 2-methoxyethyl OH 6-methoxy-3-pyridyl
S 2-methoxyethyl OH 2-methyl-3-pyridyl S 2-methoxyethyl OH 6-methyl-3-pyridyl S 2-methoxyethyl OH 2-ethyl-3-pyridyl S 2-methoxyethyl OH 6-ethyl-3-pyridyl S 2-methoxyethyl OH 6-methoxy-3-pyridyl
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S 2-methoxyethyl OH 6-methoxy-3-pyridyl
S 2-methoxyethyl OH 6-ethoxy-3-pyridyl
S 2-methoxyethyl OH 2-chloro-3-pyridyl
S 2-methoxyethyl OH 6-chloro-3-pyridyl
S 2-methoxyethyl OH 5,6-dimethyl-3-pyridyl
S 2-methoxyethyl OH 5,6-dimethoxy-3-pyridyl
S 2-methoxyethyl OH 5,6-dichloro-3-pyridyl
S 2-methoxyethyl OH 6-dimethylamino-3-pyridyl
S 2-methoxyethyl OH 6-(1-pyrrolidinyl)-3-pyridyl
S 2-methoxyethyl OH 6-piperidino-3-pyridyl
S 2-methoxyethyl OH 6-morpholino-3-pyridyl
S 2-methoxyethyl OH 6-methylthio-3-pyridyl
S 2-methoxyethyl OH 2-pyrazinyl
S 2-methoxyethyl OH 5-methyl-2-pyrazinyl
S 2-hydroxyethyl OH 3-pyridyl
S 2-hydroxyethyl OH 4-pyridyl
S 2-hydroxyethyl OH 2-methyl-3-pyridyl
S 2-hydroxyethyl OH 6-methyl-3-pyridyl
S 2-hydroxyethyl OH 2-ethyl-3-pyridyl
S 2-hydroxyethyl OH 6-ethyl-3-pyridyl
S 2-hydroxyethyl OH 2-methoxy-3-pyridyl
S 2-hydroxyethyl OH 6-methoxy-3-pyridyl
S 2-hydroxyethyl OH 6-ethoxy-3-pyridyl
S 2-hydroxyethyl OH 2-chloro-3-pyridyl
S 2-hydroxyethyl OH 6-chloro-3-pyridyl
S 2-hydroxyethyl OH 5,6-dimethyl-3-pyridyl
S 2-hydroxyethyl OH 5,6-dimethoxy-3-pyridyl
S 2-hydroxyethyl OH 5,6-dichloro-3-pyridyl
S 2-hydroxyethyl OH 6-dimethylamino-3-pyridyl
S 2-hydroxyethyl OH 6-(1-pyrrolidinyl)-3-pyridyl
S 2-hydroxyethyl OH 6-piperidino-3-pyridyl
S 2-hydroxyethyl OH 6-morpholino-3-pyridyl
S 2-hydroxyethyl OH 6-methylthio-3-pyridyl
S 2-hydroxyethyl OH 2-pyrazinyl
S 2-hydroxyethyl OH 5-methyl-2-pyrazinyl

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X	R <sup>1</sup>	R <sup>2</sup>	Y
NH	propyl	OH	1-naphthyl
NH	propyl	OH	2-naphthyl
NH	propyl	ОН	2-pyrrolyl
NH	propyl	OH	3-pyrrolyl
NH	propyl	ОН	2-furyl
NH	propyl	OH	3-furyl
NH	propyl	OH	2-thienyl
NH	propyl	OH	3-thienyl
NH	propyl	OH	3-pyrazolyl
NH	propyl	OH	4-pyrazolyl
NH	propyl	ОН	2-imidazolyl
NH	propyl	ОН	4-imidazolyl
NH	propyl	OH	2-oxazolyl
NH	propyl	OH	4-oxazolyl
NH	propyl	OH	5-oxazolyl
NH	propyl	ОН	2-thiazolyl
NH	propyl	OH	4-thiazolyl
NH	propyl	OH	5-thiazolyl
NH	propyl	OH	2-pyrimidinyl
NH	propyl	OH	4-pyrimidinyl
NH	propyl	OH	5-pyrimidinyl
NH	propyl	OH	2-indolyl
NH	propyl	OH	3-indolyl
ИН	propyl	OH	5-indolyl
NH	propyl	OH	6-indolyl
ИН	propyl	OH	5-benzimidazolyl
NH	propyl	OH	2-benzofuryl
NH	propyl	OH	3-indazolyl
ИН	propyl	OH	2-benzoxazolyl
NH	propyl	OH	4-fluoro-1-naphthyl
NH	propyl	OH	5-chloro-2-thienyl
NH	propyl	OH	4-methyl-1-naphthyl
NH	propyl	OH	1-methyl-2-рутгоlyl
NH	propyl	OH	2-methyl-3-furyl
NH	propyl	OH	5-methyl-2-thienyl
ИН	propyl	ОН	4-methyl-5-imidazolyl
ИН	propyl	, OH	1-methyl-3-indolyl
NH	propyl	OH	2-methoxy-1-naphthyl
NH	propyl	OH	3-methoxy-2-naphthyl
NH	propyl	OH	6-ethoxy-2-naphthyl
NH	propyl	OH	5-methoxy-3-indolyl
NH	propyl	OH	1,4-dimethoxy-2-naphthyl
NH	propyl	OH	5,6-dimethoxy-2-indolyl
NH	propyl	ОН	5-methoxy-1-methyl-2-indolyl

X	R <sup>1</sup>	R <sup>2</sup>	Y
NH	propyl	OCOOMe	1-naphthyl
NH	propyl	OCOOMe	2-naphthyl
NH	propyl	OCOOMe	2-pyrrolyl
NH	propyl	OCOOMe	3-pyrrolyl
NH	propyl	OCOOMe	2-furyl
NH	propyl	OCOOMe	3-furyl
NH	propyl	OCOOMe	2-thienyl
NH	propyl	OCOOMe	3-thienyl
NH	propyl	OCOOMe	3-pyrazolyl
NH	propyl	OCOOMe	4-pyrazolyl
NH	propyl	OCOOMe	2-imidazolyl
NH	propyl	OCOOMe	4-imidazolyl
NH	propyl	OCOOMe	2-oxazolyl
NH	propyl	OCOOMe	4-oxazolyl
NH	propyl	OCOOMe	5-oxazolyl
ИН	propyl	OCOOMe	2-thiazolyl
NH	propyl	OCOOMe	4-thiazolyl
NH	propyl	OCOOMe	5-thiazolyl
NH	propyl	OCOOMe	2-pyrimidinyl
NH	propyl	OCOOMe	4-pyrimidinyl
NH	propyl	OCOOMe	5-pyrimidinyl
NH	propyl	OCOOMe	2-indolyl
NH	propyl	OCOOMe	3-indolyl
NH	propyl	OCOOMe	5-indolyl
NH	propyl	OCOOMe	6-indolyl
ИН	propyl	OCOOMe	5-benzimidazolyl
NH	propyl	OCOOMe	2-benzofuryl
NH	propyl	OCOOMe	3-indazolyl
NH	propyl	OCOOMe	2-benzoxazolyl
NH	propyl	OCOOMe	4-fluoro-1-naphthyl
NH	propyl	OCOOMe	5-chloro-2-thienyl
NH	propyl	OCOOMe	4-methyl-1-naphthyl
NH	propyl	OCOOMe	1-methyl-2-pyrrolyl
NH	propyl	OCOOMe	2-methyl-3-furyl
NH	propyl	OCOOMe	5-methyl-2-thienyl
NH	propyl	OCOOMe	4-methyl-5-imidazolyl
NH	propyl	OCOOMe	1-methyl-3-indolyl
NH	propyl	OCOOMe	2-methoxy-1-naphthyl
NH	propyl	OCOOMe	3-methoxy-2-naphthyl
NH	propyl	OCOOMe	6-ethoxy-2-naphthyl
NH	propyl	OCOOMe	5-methoxy-3-indolyl
NH	propyl	OCOOMe	1.4-dimethoxy-2-naphthyl
NH	propyl	OCOOMe	5,6-dimethoxy-2-indolyl
NH	propyl	OCOOMe	5-methoxy-1-methyl-2-indolyl

X	R <sup>1</sup>	R <sup>2</sup>	Y
NH	propyl	OCOOEt	1-naphthyl
NH	propyl	OCOOEt	2-naphthyl
NH	propyl	OCOOEt	2-pyrrolyl
NH	propyl	OCOOEt	3-pyrrolyl
NH	propyl	OCOOEt	2-furyl
NH	propyl	OCOOEt	3-furyl
NH	propyl	OCOOEt	2-thienyl
NH	propyl	OCOOEt	3-thienyl
NH	propyl	OCOOEt	3-pyrazolyl
NH	propyl	OCOOEt	4-pyrazolyl
NH	propyl	OCOOEt	2-imidazolyl
NH	propyl	OCOOEt	4-imidazolyl
NH	propyl	OCOOEt	2-oxazolyl
NH	propyl	OCOOE1	4-oxazolyl
NH	propyl	OCOOEt	5-oxazolyl
NH	propyl	OCOOEt	2-thiazolyl
NH	propyl	OCOOEt	4-thiazolyl
NH	propyl	OCOOEt	5-thiazolyl
NH	propyl	OCOOEt	2-pyrimidinyl
NH	propyl	OCOOEt	4-pyrimidinyl
NH	propyl	OCOOEt	5-pyrimidinyl
NH	propyl	OCOOEt	2-indolyl
NH	propyl	OCOOEt	3-indolyl
NH	propyl	OCOOEt	5-indolyl
NH	propyl	OCOOEt	6-indolyl
NH	propyl	OCOOEt	5-benzimidazolyl
NH	propyl	OCOOEt	2-benzofuryl
NH	propyl	OCOOEt	3-indazolyl
NH	propyl	OCOOEt	2-benzoxazolyl
NH	propyl	OCOOEt	4-fluoro-1-naphthyl
NH	propyl	OCOOEt	5-chloro-2-thienyl
NH	propyl	OCOOEt	4-methyl-1-naphthyl
NH	propyl	OCOOEt	1-methyl-2-pyrrolyl
NH	propyl	OCOOEt	2-methyl-3-furyl
NH	propyl	OCOOEt	5-methyl-2-thienyl
NH	propyl	OCOOEt	4-methyl-5-imidazolyl
NH	propyl	OCOOEt	1-methyl-3-indolyl
NH	propyl	OCOOE1	2-methoxy-1-naphthyl
NH	propyl	OCOOEt	3-methoxy-2-naphthyl
NH	propyl	OCOOEt	6-ethoxy-2-naphthyl
NH	propyl	OCOOEt.	5-methoxy-3-indolyl
NH	propyl	OCOOEt	1,4-dimethoxy-2-naphthyl
NH	propyl	OCOOEt	5,6-dimethoxy-2-indolyl
NH	propyl	OCOOEt	5-methoxy-1-methyl-2-indolyl

Х	R <sup>1</sup>	R <sup>2</sup>	Y
NH	n-butyl	· OH	1-naphthyl
NH	n-butyl	OH	2-naphthyl
NH	n-butyl	OH	2-pyrrolyl
NH	n-butyl	QH	3-pyrrolyl
NH	n-butyl	OH	2-fuyl
NH	n-butyl	OH	3-furyl
NH	n-butyl	OH	2-thienyl
NH	n-butyl	OH	3-thienyl
NH	n-butyl	OH	3-pyrazolyl
NH	n-butyl	OH	4-pyrazolyl
NH	n-butyl	OH	2-imidazolyl
NH	n-butyl	OH	4-imidazolyl
NH	n-butyl	OH	2-oxazolyl
NH	n-butyl	OH	4-oxazolyl
NH	n-butyl	ОН	5-oxazolyl
NH	n-butyl	ОН	2-thiazolyl
NH	n-butyl	ОН	4-thiazolyl
NH	n-butyl	ОН	5-thiazolyl
NH	n-butyl	OH	2-pyrimidinyl
NH	n-butyl	OH	4-pyrimidinyl
NH	n-butyl	ОН	5-pyrimidinyl
NH	n-butyl	ОН	2-indolyl
NH	n-butyl	OH	3-indolyl
NH	n-butyl	OH	5-indolyl
NH	n-butyl	OH	6-indolyl
NH	n-butyl	OH	5-benzimidazolyl
NH	n-butyl	OH	2-benzofuryl
NH	n-butyl	OH	3-indazolyl
NH	n-butyl	OH	2-benzoxazolyl
NH	n-butyl	ОН	4-fluoro-1-naphthyl
NH	n-butyl	OH	5-chloro-2-thienyl
NH	n-butyl	OH	4-methyl-1-naphthyl
NH	n-butyl	OH	1-methyl-2-pyrrolyl
NH	n-butyl	OH	2-methyl-3-furyl
NH	n-butyl	OH	5-methyl-2-thienyl
NH	n-butyl	OH	4-methyl-5-imidazolyl
NH	n-butyl	ОН	1-methyl-3-indolyl
NH	n-butyl	OH	2-methoxy-1-naphthyl
NH	n-butyl	OH	3-methoxy-2-naphthyl
NH	n-butyl	OH	6-ethoxy-2-naphthyl
NH	n-butyl	ОН	5-methoxy-3-indolyl
NH	n-butyl	ОН	1,4-dimethoxy-2-naphthyl
NH	n-butyl	ОН	5,6-dimethoxy-2-indolyl
NH	n-butyl	OH	5-methoxy-1-methyl-2-indolyl

Х	R <sup>1</sup>	R <sup>2</sup>	Y
NH	n-butyl	OCOOMe	1-naphthyl
NH	n-butyl	OCOOMe	2-naphthyl
NH	n-butyl	OCOOMe	2-pyrrolyl
NH	n-butyl	OCOOMe	3-pyrrolyl
NH	n-butyl	OCOOMe	2-furyl
NH	n-butyl	OCOOMe	3-furyl
NH	n-butyl	OCOOMe	2-thienyl
NH	n-butyl	OCOOMe	3-thienyl
NH	n-butyl	OCOOMe	3-pyrazolyl
NH	n-butyl	OCOOMe	4-pyrazolyl
NH	n-butyl	OCOOMe	2-imidazolyl
NH	n-butyl	OCOOMe	4-imidazolyl
NH	n-butyl	OCOOMe	2-oxazolyl
NH	n-butyl	OCOOMe	4-oxazolyl
NH	n-butyl	OCOOMe	5-oxazolyl
NH	n-butyl	OCOOMe	2-thiazolyl
NH	n-butyl	OCOOMe	4-thiazolyl
NH	n-butyl	OCOOMe	5-thiazolyl
NH	n-butyl	OCOOMe	2-pyrimidinyl
NH	n-butyl	ОСООМе	4-pyrimidinyl
NH	n-butyl	ОСООМе	5-pyrimidinyl
NH	n-butyl	ОСООМе	2-indolyl
NH	n-butyl	OCOOMe	3-indolyl
NH	n-butyl	OCOOMe	5-indolyl
NH	n-butyl	OCOOMe	6-indolyl
NH	n-butyl	OCOOMe	5-benzimidazolyl
NH	n-butyl	OCOOMe	2-benzofuryl
NH	n-butyl	OCOOMe	3-indazolyl
ИН	n-butyl	OCOOMe	2-benzoxazolyl
NH	n-butyl	OCOOMe	4-fluoro-1-naphthyl
NH	n-butyl	OCOOMe	5-chloro-2-thienyl
NH	n-butyl	OCOOMe	4-methyl-1-naphthyl
NH	n-butyl	OCOOMe	1-methyl-2-pyrrolyl
NH	n-butyl	OCOOMe	2-methyl-3-furyl
ΝН	n-butyl	OCOOMe	5-methyl-2-thienyl
NH	n-butyl	OCOOMe	4-methyl-5-imidazolyl
NH	n-butyl	OCOOMe	1-methyl-3-indolyl
NH	n-butyl	OCOOMe	2-methoxy-1-naphthyl
NH	n-butyl	OCOOMe	3-methoxy-2-naphthyl
NH	n-butyl	OCOOMe	6-ethoxy-2-naphthyl
NH	n-butyl	OCOOMe	5-methoxy-3-indolyl
NH	n-butyl	OCOOMe	1,4-dimethoxy-2-naphthyl
NH	n-butyl	OCOOMe	5,6-dimethoxy-2-indolyl
NH	n-butyl	OCOOMe	5-methoxy-1-methyl-2-indolyl

Х	R <sup>1</sup>	R <sup>2</sup>	Y
NH	n-butyl	OCOOEt	1-naphthyl
NH	n-butyl	OCOOEt	2-naphthyl
NH	n-butyl	OCOOEt	2-pyrrolyl
NH	n-butyl	OCOOEt	3-pyrrolyl
NH	n-butyl	OCOOEt	2-furyl
NH	n-butyl	OCOOEt	3-furyl
NH	n-butyl	OCOOEt	2-thienyl
NH	n-butyl	OCOOEt	3-thienyl
NH	n-butyl	OCOOEt	3-pyrazolyl
NH	n-butyl	OCOOEt	4-pyrazolyl
NH	n-butyl	OCOOEt	2-imidazolyl
NH	n-butyl	OCOOEt.	4-imidazolyl
NH	n-butyl	OCOOEt	2-oxazolyl
NH	n-butyl	OCOOEt	4-oxazolyl
NH	n-butyl	OCOOEt	5-oxazolyl
NH	n-butyl	OCOOEt	2-thiazolyl
NH	n-butyl	OCOOEt	4-thiazolyl
NH	n-butyl	OCOOEt	5-thiazolyl
NH	n-butyl	OCOOEt	2-pyrimidinyl
NH	n-butyl	OCOOEt	4-pyrimidinyl
NH	n-butyl	OCOOEt	5-pyrimidinyl
NH	n-butyl	OCOOEt	2-indolyl
NH	n-butyl	OCOOEt	3-indolyl
NH	n-butyl	OCOOEt	5-indolyl
NH	n-butyl	OCOOEt	6-indolyl
NH	n-butyl	OCOOEt	5-benzimidazolyl
NH	n-butyl	OCOOEt	2-benzofuryl
NH	n-butyl	OCOOEt	3-indazolyl
NH	n-butyl	OCOOEt	2-benzoxazolyl
NH	n-butyl	OCOOEt.	4-fluoro-1-naphthyl
NH	n-butyl	OCOOEt	5-chloro-2-thienyl
NH	n-butyl	OCOOEt	4-methyl-1-naphthyl
NH	n-butyl	OCOOEt	1-methyl-2-pyrrolyl
NH	n-butyl	OCOOEt	2-methyl-3-furyl
NH	n-butyl	OCOOEt	5-methyl-2-thienyl
NH	n-butyl	OCOOEt	4-methyl-5-imidazolyl
NH	n-butyl	OCOOEt	1-methyl-3-indolyl
NH	n-butyl	OCOOEt	2-methoxy-1-naphthyl
NH	n-butyl	OCOOEt	3-methoxy-2-naphthyl
NH	n-butyl	OCOOEt	6-ethoxy-2-naphthyl
NH	n-butyl	OCOOEt	5-methoxy-3-indolyl
NH	n-butyl	OCOOEt	1.4-dimethoxy-2-naphthyl
NH	n-butyl	OCOOEL	5,6-dimethoxy-2-indolyl
NH	n-butyl	OCOOEt	5-methoxy-1-methyl-2-indolyl

X	R <sup>1</sup>	R <sup>2</sup>	Y
	<del></del>		
NH	n-pentyl	OH	1-naphthyl
NH	n-pentyl	OH	2-naphthyl
NH	n-pentyl	OH	2-pyrrolyl
NH	n-pentyl	OH	3-pyrrolyl
NH	n-pentyl	ОН	2-furyl
NH	n-pentyl	OH	3-furyl
NH	n-pentyl	OH	2-thienyl
NH	n-pentyl	OH	3-thienyl
NH	n-pentyl	OH	3-pyrazolyl
NH	n-pentyl	OH	4-pyrazolyl
ИН	n-pentyl	OH	2-imidazolyl
NH	n-pentyl	OH	4-imidazolyl
NH	n-pentyl	ОН	2-oxazolyl
NH	n-pentyl	OH	4-oxazolyl
NH	n-pentyl	OH	5-oxazolyl
NH	n-pentyl	OH	2-thiazolyl
NH	n-pentyl	OH	4-thiazolyl
NH	n-pentyl	OH	5-thiazolyl
NH	n-pentyl	OH	2-pyrimidinyl
NH	n-pentyl	OH	4-pyrimidinyl
NH	n-pentyl	OH	5-pyrimidinyl
NH	n-pentyl	OH	2-indolyl
NH	n-pentyl	OH	3-indolyl
NH	n-pentyl	OH	5-indolyl
NH	n-pentyl	OH	6-indolyl
NH	n-pentyl	OH	5-benzimidazolyl
NH	n-pentyl	OH	2-benzofuryl
NH	n-pentyl	OH	3-indazolyl
NH	n-pentyl	OH	2-benzoxazolyl
NH	n-pentyl	OH	4-fluoro-1-naphthyl
NH	n-pentyl	OH	5-chloro-2-thienyl
NH	n-pentyl	OH	4-methyl-1-naphthyl
NH	n-pentyl	OH	1-methyl-2-pyrrolyl
NH	n-pentyl	OH	2-methyl-3-furyl
NH	n-pentyl	OH	5-methyl-2-thienyl
NH	n-pentyl	ОН	4-methyl-5-imidazolyl
NH	n-pentyl	OH	1-methyl-3-indolyl
NH	n-pentyl	OH	2-methoxy-1-naphthyl
NH	n-pentyl	OH	3-methoxy-2-naphthyl
NH	n-pentyl	OH	6-ethoxy-2-naphthyl
NH	n-pentyl	OH	5-methoxy-3-indolyl
NH	n-pentyl	OH	1.4-dimethoxy-2-naphthyl
NH	n-pentyl	OH	5,6-dimethoxy-2-indolyl
NH	n-pentyl	OH	5-methoxy-1-methyl-2-indolyl
1111	n-pentyr	Off	5-memoxy=1-memy1-2-mooty1

X	R <sup>1</sup>	R <sup>2</sup>	Y
NH	n-pentyl	OCOOMe	1-naphthyl
NH	n-pentyl	OCOOMe	2-naphthyl
NH	n-pentyl	OCOOMe	2-pyrrolyl
NH	n-pentyl	OCOOMe	3-pyrrolyl
NH	n-pentyl	OCOOMe	2-furyl
NH	n-pentyl	OCOOMe	3-furyl
NH	n-pentyl	OCOOMe	2-thienyl
NH	n-pentyl	OCOOMe	3-thienyl
NH	n-pentyl	OCOOMe	3-pyrazolyl
NH,	n-pentyl	OCOOMe	4-pyrazolyl
NH	n-pentyl	OCOOMe	2-imidazolyl
NH	n-pentyl	OCOOMe	4-imidazolyl
NH	n-pentyl	OCOOMe	2-oxazolyl
NH	n-pentyl	OCOOMe	4-oxazolyl
NH	n-pentyl	OCOOMe	5-oxazolyl
NH	n-pentyl	OCOOMe	2-thiazolyl
NH	n-pentyl	OCOOMe	4-thiazolyl
NH	n-pentyl	OCOOMe	5-thiazolyl
NH	n-pentyl	OCOOMe	2-pyrimidinyl
NH	n-pentyl	OCOOMe	4-pyrimidinyl
NH	n-pentyl	OCOOMe	5-pyrimidinyl
NH	n-pentyl	OCOOMe	2-indolyl
NH	n-pentyl	OCOOMe	3-indolyl
NH	n-pentyl	OCOOMe	5-indolyl
NH	n-pentyl	OCOOMe	6-indolyl
NH	n-pentyl	OCOOMe	5-benzimidazolyl
NH	n-pentyl	OCOOMe	2-benzofuryl
NH	n-pentyl	OCOOMe	3-indazolyl
NH	n-pentyl	OCOOMe	2-benzoxazolyl
NH	n-pentyl	OCOOMe	4-fluoro-1-naphthyl
NH	n-pentyl	OCOOMe	5-chloro-2-thienyl
NH	n-pentyl	OCOOMe	4-methyl-1-naphthyl
NH	n-pentyl	OCOOMe	1-methyl-2-pyrrolyl
NH	n-pentyl	OCOOMe	2-methyl-3-furyl
NH	n-pentyl	OCOOMe	5-methyl-2-thienyl
NH	n-pentyl	OCOOMe	4-methyl-5-imidazolyl
NH	n-pentyl	OCOOMe	1-methyl-3-indolyl
NH	n-pentyl	OCOOMe	2-methoxy-1-naphthyl
NH	n-pentyl	OCOOMe	3-methoxy-2-naphthyl
NH	n-pentyl	OCOOMe	6-ethoxy-2-naphthyl
NH	n-pentyl	OCOOMe	5-methoxy-3-indolyl
NH	n-pentyl	OCOOMe	1,4-dimethoxy-2-naphthyl
			5,6-dimethoxy-2-indolyl
NH	n-pentyl	OCOOMe	5.0-dimemoxy-2-mdory

Х	R <sup>1</sup>	R <sup>2</sup>	Y
NH	n-pentyl	OCOOEt	1-naphthyl
NH	n-pentyl	OCOOEt	2-naphthyl
NH	n-pentyl	OCOOEt	2-pyrrolyl
NH	n-pentyl	OCOOEt	3-pyrrolyl
NH	n-pentyl	OCOOEt	2-furyl
NH	n-pentyl	OCOOEt	3-furyl
NH	n-pentyl	OCOOEt	2-thienyl
NH	n-pentyl	OCOOEt	3-thienyl
NH	n-pentyl	OCOOEt	3-pyrazolyl
NH	n-pentyl	OCOOEt	4-pyrazolyl
NH	n-pentyl	OCOOEt	2-imidazolyl
NH	n-pentyl	OCOOEt	4-imidazolyl
NH	n-pentyl	OCOOEt	2-oxazolyl
NH	n-pentyl	OCOOEt.	4-oxazolyl
NH	n-pentyl	OCOOEt	5-oxazolyl
NH	n-pentyl	OCOOEt	2-thiazolyl
NH	n-pentyl	OCOOEt	4-thiazolyl
NH	n-pentyl	OCOOEt.	5-thiazolyl
ИН	n-pentyl	OCOOEt	2-pyrimidinyl
NH	n-pentyl	OCOOEt	4-pyrimidinyl
NH	n-pentyl	OCOOEt	5-pyrimidinyl
NH	n-pentyl	OCOOEt	2-indolyl
NH	n-pentyl	OCOOEt	3-indolyl
NH	n-pentyl	OCOOEt	5-indolyl
NH	n-pentyl	OCOOEt	6-indolyl
NH	n-pentyl	OCOOEt	5-benzimidazolyl
NH	n-pentyl	OCOOEt	2-benzofuryl
NH	n-pentyl	OCOOEt	3-indazolyl
NH	n-pentyl	OCOOEt	2-benzoxazolył
NH	n-pentyl	OCOOEt	4-fluoro-1-naphthyl
NH	n-pentyl	OCOOEt.	5-chloro-2-thienyl
NH	n-pentyl	OCOOEt	4-methyl-1-naphthyl
NH	n-pentyl	OCOOEt	1-methyl-2-pyrrolyl
NH	n-pentyl	OCOOEt	2-methyl-3-furyl
NH	n-pentyl	OCOOEt	5-methyl-2-thienyl
NH	n-pentyl	OCOOEt	4-methyl-5-imidazolyl
NH	n-pentyl	OCOOEt	1-methyl-3-indolyl
NH	n-pentyl	OCOOEt	2-methoxy-1-naphthyl
NH	n-pentyl	OCOOEt	3-methoxy-2-naphthyl
NH	n-pentyl	OCOOEt	6-ethoxy-2-naphthyl
NH	n-pentyl	OCOOEt	5-methoxy-3-indolyl
NH	n-pentyl	OCOOEt	1.4-dimethoxy-2-naphthyl
NH	n-pentyl	OCOOEt	5,6-dimethoxy-2-indolyl
NH	n-pentyl	OCOOEt	5-methoxy-1-methyl-2-indolyl

X	R <sup>1</sup>	R <sup>2</sup>	Y
0	propyl	OH	1-naphthyl
0	propyl	OH	2-naphthyl
0	propyl	OH	2-pyrrolyl
0	propyl	OH	3-pyrrolyl
0	propyl	OH	2-furyl
0	propyl	OH	3-furyl
0	propyl	ОН	2-thienyl
0	propyl	ОН	3-thienyl
0	propyl	OH	3-pyrazolyl
	propyl	OH	4-pyrazolyl
0	propyl	OH	2-imidazolyl
0	·	OH	4-imidazolyl
0	propyl	OH	· · · · · · · · · · · · · · · · · · ·
0	propyl	OH	2-oxazolyl
0	propyl	OH	4-oxazolyl
	propyl		5-oxazolyl
0	propyl	OH	2-thiazolyl 4-thiazolyl
	propyl	OH	
0	propyl	OH	5-thiazolyl
0	propyl	OH	2-pyrimidinyl
0	propyl	OH	4-pyrimidinyl
0	propyl	OH	5-pyrimidinyl
0	propyl	OH	2-indolyl
0	propyl	OH	3-indolyl
0	propyl	OH	5-indolyl
0	propyl	OH	6-indolyl
0	propyl	OH	5-benzimidazolyl
0	propyl	OH	2-benzofuryl
, O	propyl	OH	3-indazolyl
0	propyl	OH	2-benzoxazolyl
O	propyl	OH	4-fluoro-1-naphthyl
0	propyl	OH	5-chloro-2-thienyl
0	propyl	OH	4-methyl-1-naphthyl
0	propyl	OH	1-methyl-2-pyrrolyl
0	propyl	OH	2-methyl-3-furyl
0	propyl	ОН	5-methyl-2-thienyl
0	propyl	OH	4-methyl-5-imidazolyl
0	propyl	OH	1-methyl-3-indolyl
0	propyl	OH	2-methoxy-1-naphthyl
0	propyl	OH	3-methoxy-2-naphthyl
0	propyl	OH	6-ethoxy-2-naphthyl
0	propyl	OH	5-methoxy-3-indolyl
0	propyl	ОН	1,4-dimethoxy-2-naphthyl
0	propyl	ОН	5,6-dimethoxy-2-indolyl
0	propyl	OH	5-methoxy-1-methyl-2-indolyl

Description				
O	X	R <sup>1</sup>	R <sup>2</sup>	Y
Description	0	propyl	OCOOMe	1-naphthyl
O	0		OCOOMe	
O	0	propyl	OCOOMe	2-pyrrolyl
O	0	propyl	OCOOMe	3-pyrrolyl
Description	0	propyl	OCOOMe	2-furyl
Description	0	propyl	OCOOMe	3-furyl
DO	0	propyl	OCOOMe	2-thienyl
DCOOME   3-pyrazolyl   DCOOME   4-pyrazolyl   DCOOME   4-pyrazolyl   DCOOME   4-pyrazolyl   DCOOME   4-inidazolyl   DCOOME   4-pyrinidinyl   4-pyrinidinyl   4-pyrinidinyl   DCOOME   4-pyrinidinyl   4-pyr	0		OCOOMe	3-thienyl
D	0		OCOOMe	3-pyrazolyl
propyl OCOOMe 4-imidazolyl OCOOMe 2-oxazolyl OCOOMe 2-oxazolyl OCOOMe 3-oxazolyl OCOOMe 3-oxazolyl OCOOME 3-oxazolyl OCOOME 3-thiazolyl OCOOME 3-thiazolyl OCOOME 3-thiazolyl OCOOME 3-thiazolyl OCOOME 3-thiazolyl OCOOME 3-thiazolyl OCOOME 3-imidalyl OCOOME 3-imidal	0	propyl	OCOOMe	4-pyrazolyl
propyl OCOOMe 4-imidazolyl OCOOMe 2-oxazolyl OCOOMe 2-oxazolyl OCOOMe 3-oxazolyl OCOOMe 3-oxazolyl OCOOME 3-oxazolyl OCOOME 3-thiazolyl OCOOME 3-thiazolyl OCOOME 3-thiazolyl OCOOME 3-thiazolyl OCOOME 3-thiazolyl OCOOME 3-thiazolyl OCOOME 3-imidalyl OCOOME 3-imidal	0		OCOOMe	2-imidazolyl
Description	0		OCOOMe	
Description of the property of	0		OCOOMe	2-oxazolyl
propyl OCOOMe 5-oxazolyl Dropyl OCOOMe 2-thiazolyl Dropyl OCOOMe 2-thiazolyl Dropyl OCOOMe 4-thiazolyl Dropyl OCOOMe 5-thiazolyl Dropyl OCOOMe 5-thiazolyl Dropyl OCOOMe 2-pyrimidinyl Dropyl OCOOMe 4-pyrimidinyl Dropyl OCOOMe 5-pyrimidinyl Dropyl OCOOMe 3-indolyl Dropyl OCOOMe 3-indolyl Dropyl OCOOMe 5-indolyl Dropyl OCOOMe 5-benzimidazolyl Dropyl OCOOMe 5-benzimidazolyl Dropyl OCOOMe 3-indazolyl Dropyl OCOOMe 4-fluoro-1-naphthyl Dropyl OCOOMe 4-fluoro-2-thienyl Dropyl OCOOMe 4-methyl-1-naphthyl Dropyl OCOOMe 3-methyl-3-furyl Dropyl OCOOMe 5-methyl-3-furyl Dropyl OCOOMe 5-methyl-3-inidazolyl Dropyl OCOOMe 1-methyl-3-inidazolyl Dropyl OCOOMe 1-methyl-3-inidazolyl Dropyl OCOOMe 1-methyl-3-inidazolyl Dropyl OCOOMe 3-methoxy-3-indolyl Dropyl OCOOMe 3-methoxy-2-naphthyl Dropyl OCOOMe 3-methoxy-2-naphthyl Dropyl OCOOMe 5-methoxy-3-indolyl	0		<del></del>	
Description of the color of the	0		OCOOMe	
propyl OCOOMe 5-thiazolyl OCOOMe 5-thiazolyl OCOOMe 5-thiazolyl OCOOMe 2-pyrimidinyl OCOOMe 3-propyl OCOOMe 4-pyrimidinyl OCOOMe 5-pyrimidinyl OCOOMe 5-pyrimidinyl OCOOMe 5-pyrimidinyl OCOOMe 5-pyrimidinyl OCOOMe 3-indolyl OCOOMe 3-indolyl OCOOMe 5-indolyl OCOOMe 5-indolyl OCOOMe 5-indolyl OCOOME 6-indolyl OCOOME 5-benzimidazolyl OCOOME 5-benzimidazolyl OCOOME 3-indazolyl OCOOME 4-fluoro-1-naphthyl OCOOME 4-fluoro-1-naphthyl OCOOME 5-chloro-2-thienyl OCOOME 4-methyl-1-naphthyl OCOOME 1-methyl-3-furyl OCOOME 3-indazolyl OCOOME 1-methyl-3-furyl OCOOME 3-methyl-3-furyl OCOOME 1-methyl-3-inidazolyl OCOOME 1-methyl-3-inidazolyl OCOOME 1-methyl-3-inidazolyl OCOOME 1-methyl-3-inidazolyl OCOOME 1-methyl-3-inidazolyl OCOOME 1-methyl-3-inidazolyl OCOOME 1-methyl-3-inidalyl OCOOME 1-methyl-3-inidalyl OCOOME 1-methyl-3-inidalyl OCOOME 1-methyl-3-inidalyl OCOOME 3-methoxy-2-naphthyl OCOOME 5-methoxy-2-naphthyl OCOOME 5-methoxy-3-indolyl OCO	()			
Description of the property of	0			
Description of the property of	0			
Description of the property of	0			
propyl OCOOMe 5-pyrimidinyl OCOOMe 2-indolyl OCOOMe 3-indolyl OCOOMe 3-indolyl OCOOMe 3-indolyl OCOOME 5-indolyl OCOOME 5-indolyl OCOOME 5-indolyl OCOOME 5-indolyl OCOOME 5-benzimidazolyl OCOOME 3-indazolyl OCOOME 2-benzofuryl OCOOME 3-indazolyl OCOOME 3-indazolyl OCOOME 3-indazolyl OCOOME 3-indazolyl OCOOME 4-fluoro-1-naphthyl OCOOME 5-chloro-2-thienyl OCOOME 5-chloro-2-thienyl OCOOME 4-methyl-1-naphthyl OCOOME 1-methyl-3-furyl OCOOME 1-methyl-3-furyl OCOOME 5-methyl-3-furyl OCOOME 5-methyl-3-furyl OCOOME 1-methyl-3-inidazolyl OCOOME 3-methoxy-1-naphthyl OCOOME 3-methoxy-2-naphthyl OCOOME 5-methoxy-2-naphthyl OCOOME 5-methoxy-3-indolyl OCOOME 5-met	0			
propyl OCOOMe 2-indolyl OCOOMe 3-indolyl OCOOMe 5-indolyl OCOOMe 5-indolyl OCOOME 5-indolyl OCOOME 5-indolyl OCOOME 5-indolyl OCOOME 5-benzinidazolyl OCOOME 2-benzofuryl OCOOME 3-indazolyl OCOOME 3-indazolyl OCOOME 3-indazolyl OCOOME 2-benzoxazolyl OCOOME 4-fluoro-1-naphthyl OCOOME 5-chloro-2-thienyl OCOOME 5-chloro-2-thienyl OCOOME 4-methyl-1-naphthyl OCOOME 1-methyl-3-furyl OCOOME 1-methyl-3-furyl OCOOME 5-methyl-2-thienyl OCOOME 5-methyl-3-furyl OCOOME 1-methyl-3-inidazolyl OCOOME 3-methoxy-2-naphthyl OCOOME 5-methoxy-2-naphthyl OCOOME 5-methoxy-2-naphthyl OCOOME 5-methoxy-3-indolyl OCOOME	0			
propyl OCOOMe 3-indolyl OCOOMe 5-indolyl OCOOMe 5-indolyl OCOOMe 5-indolyl OCOOMe 5-indolyl OCOOMe 5-benzimidazolyl OCOOMe 3-indazolyl OCOOME 3-indazolyl OCOOME 3-indazolyl OCOOME 3-indazolyl OCOOME 3-indazolyl OCOOME 3-indazolyl OCOOME 4-fluoro-1-naphthyl OCOOME 5-chloro-2-thienyl OCOOME 5-chloro-2-thienyl OCOOME 4-methyl-1-naphthyl OCOOME 1-methyl-3-furyl OCOOME 1-methyl-3-furyl OCOOME 5-methyl-3-furyl OCOOME 5-methyl-3-furyl OCOOME 1-methyl-3-inidazolyl OCOOME 1-methoxy-2-naphthyl OCOOME 5-methoxy-2-naphthyl OCOOME 5-methoxy-3-indolyl OCOOME 5-methoxy-3-indolyl OCOOME 5-methoxy-3-indolyl OCOOME 1.4-dimethoxy-2-naphthyl	0		<del></del>	
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propyl OCOOMe 5-benzimidazolyl Depropyl OCOOMe 5-benzimidazolyl Depropyl OCOOMe 5-benzimidazolyl Depropyl OCOOMe 3-indazolyl Depropyl OCOOMe 3-indazolyl Depropyl OCOOMe 5-benzoxazolyl Depropyl OCOOMe 4-fluoro-1-naphthyl Depropyl OCOOMe 5-chloro-2-thienyl Depropyl OCOOMe 4-methyl-1-naphthyl Depropyl OCOOMe 1-methyl-2-pyrrolyl Depropyl OCOOMe 2-methyl-3-furyl Depropyl OCOOMe 5-methyl-2-thienyl Depropyl OCOOMe 4-methyl-5-inidazolyl Depropyl OCOOMe 1-methyl-5-inidazolyl Depropyl OCOOMe 1-methyl-3-inidalyl Depropyl OCOOMe 2-methoxy-1-naphthyl Depropyl OCOOMe 3-methoxy-2-naphthyl Depropyl OCOOMe 5-methoxy-2-naphthyl Depropyl OCOOMe 5-methoxy-2-naphthyl Depropyl OCOOMe 5-methoxy-2-naphthyl Depropyl OCOOMe 5-methoxy-3-indolyl Depropyl OCOOMe 1.4-dimethoxy-3-indolyl	0			
propyl OCOOMe 5-benzimidazolyl Dipropyl OCOOMe 2-benzofuryl Dipropyl OCOOMe 3-indazolyl Dipropyl OCOOMe 3-indazolyl Dipropyl OCOOMe 2-benzoxazolyl Dipropyl OCOOMe 4-fluoro-1-naphthyl Dipropyl OCOOMe 5-chloro-2-thienyl Dipropyl OCOOMe 4-methyl-1-naphthyl Dipropyl OCOOMe 1-methyl-3-furyl Dipropyl OCOOMe 2-methyl-3-furyl Dipropyl OCOOMe 5-methyl-2-thienyl Dipropyl OCOOMe 4-methyl-5-inidazolyl Dipropyl OCOOMe 1-methyl-5-inidazolyl Dipropyl OCOOMe 2-methyl-3-indolyl Dipropyl OCOOMe 3-methoxy-1-naphthyl Dipropyl OCOOMe 3-methoxy-2-naphthyl Dipropyl OCOOMe 3-methoxy-2-naphthyl Dipropyl OCOOMe 5-methoxy-2-naphthyl	0			
propyl OCOOMe 2-benzofuryl Dipropyl OCOOMe 3-indazolyl Dipropyl OCOOMe 2-benzoxazolyl Dipropyl OCOOMe 4-fluoro-1-naphthyl Dipropyl OCOOMe 5-chloro-2-thienyl Dipropyl OCOOMe 4-methyl-1-naphthyl Dipropyl OCOOMe 1-methyl-2-pyrrolyl Dipropyl OCOOMe 2-methyl-3-furyl Dipropyl OCOOMe 5-methyl-2-thienyl Dipropyl OCOOMe 4-methyl-5-inidazolyl Dipropyl OCOOMe 1-methyl-5-inidazolyl Dipropyl OCOOMe 2-methyl-3-inidayl Dipropyl OCOOMe 3-methyl-3-indolyl Dipropyl OCOOMe 3-methoxy-1-naphthyl Dipropyl OCOOMe 3-methoxy-2-naphthyl Dipropyl OCOOMe 5-methoxy-2-naphthyl	0		<del> </del>	
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propyl OCOOMe 2-benzoxazolyl Dipropyl OCOOMe 4-fluoro-1-naphthyl Dipropyl OCOOMe 5-chloro-2-thienyl Dipropyl OCOOMe 5-chloro-2-thienyl Dipropyl OCOOMe 4-methyl-1-naphthyl Dipropyl OCOOMe 1-methyl-3-furyl Dipropyl OCOOMe 5-methyl-3-furyl Dipropyl OCOOMe 4-methyl-5-imidazolyl Dipropyl OCOOMe 1-methyl-5-imidazolyl Dipropyl OCOOMe 1-methyl-3-indolyl Dipropyl OCOOMe 2-methoxy-1-naphthyl Dipropyl OCOOMe 3-methoxy-2-naphthyl Dipropyl OCOOMe 3-methoxy-2-naphthyl Dipropyl OCOOMe 5-methoxy-3-indolyl Dipropyl OCOOMe 1.4-dimethoxy-2-naphthyl	0			
Depropyl OCOOMe 4-fluoro-1-naphthyl OCOOMe 5-chloro-2-thienyl OCOOMe 5-chloro-2-thienyl OCOOMe 4-methyl-1-naphthyl OCOOMe 1-methyl-2-pyrrolyl OCOOMe 2-methyl-3-furyl OCOOMe 5-methyl-2-thienyl OCOOMe 5-methyl-2-thienyl OCOOMe 4-methyl-5-imidazolyl OCOOMe 1-methyl-5-imidazolyl OCOOMe 1-methyl-3-indolyl OCOOMe 1-methyl-3-indolyl OCOOMe 2-methoxy-1-naphthyl OCOOMe 3-methoxy-2-naphthyl OCOOMe 3-methoxy-2-naphthyl OCOOMe 5-methoxy-3-indolyl OCOOMe 5-methoxy-3-indolyl OCOOMe 5-methoxy-3-indolyl OCOOMe 5-methoxy-3-indolyl OCOOMe 1.4-dimethoxy-2-naphthyl	0			
Description of the propyl occome supposed of the propyl occome supposed occome	0			
propyl OCOOMe 4-methyl-1-naphthyl OCOOMe 1-methyl-2-pyrrolyl OCOOMe 2-methyl-3-furyl OCOOMe 5-methyl-2-thienyl OCOOMe 4-methyl-5-imidazolyl OCOOMe 4-methyl-5-imidazolyl OCOOMe 1-methyl-3-indolyl OCOOMe 1-methyl-3-indolyl OCOOMe 2-methoxy-1-naphthyl OCOOMe 3-methoxy-2-naphthyl OCOOMe 3-methoxy-2-naphthyl OCOOMe 5-methoxy-2-naphthyl OCOOMe 5-methoxy-2-naphthyl OCOOMe 5-methoxy-3-indolyl OCOOMe 5-methoxy-3-indolyl OCOOMe 1.4-dimethoxy-2-naphthyl	0			
Description	0			
propyl OCOOMe 2-methyl-3-furyl OCOOMe 5-methyl-2-thienyl OCOOMe 4-methyl-5-imidazolyl OCOOMe 1-methyl-5-imidazolyl OCOOMe 1-methyl-3-indolyl OCOOMe 2-methoxy-1-naphthyl OCOOMe 3-methoxy-2-naphthyl OCOOMe 6-ethoxy-2-naphthyl OCOOMe 5-methoxy-2-naphthyl OCOOMe 5-methoxy-3-indolyl OCOOMe 1.4-dimethoxy-2-naphthyl	0			
propyl OCOOMe 5-methyl-2-thienyl OCOOMe 4-methyl-5-imidazolyl Depropyl OCOOMe 1-methyl-3-inidazolyl Depropyl OCOOMe 1-methyl-3-inidalyl Depropyl OCOOMe 2-methoxy-1-naphthyl Depropyl OCOOMe 3-methoxy-2-naphthyl Depropyl OCOOMe 6-ethoxy-2-naphthyl Depropyl OCOOMe 5-methoxy-3-indolyl Depropyl OCOOMe 1.4-dimethoxy-2-naphthyl Depropyl OCOOMe 1.4-dimethyl Depro	0			
D         propyl         OCOOMe         4-methyl-5-imidazolyl           D         propyl         OCOOMe         1-methyl-3-imidazolyl           D         propyl         OCOOMe         2-methoxy-1-naphthyl           D         propyl         OCOOMe         3-methoxy-2-naphthyl           D         propyl         OCOOMe         6-ethoxy-2-naphthyl           D         propyl         OCOOMe         5-methoxy-3-indolyl           D         propyl         OCOOMe         1.4-dimethoxy-2-naphthyl	0			
Description of the propyl occords and propyl occord	0			
D         propyl         OCOOMe         2-methoxy-1-naphthyl           D         propyl         OCOOMe         3-methoxy-2-naphthyl           D         propyl         OCOOMe         6-ethoxy-2-naphthyl           D         propyl         OCOOMe         5-methoxy-3-indolyl           D         propyl         OCOOMe         1.4-dimethoxy-2-naphthyl	0			
propyl OCOOMe 3-methoxy-2-naphthyl OCOOMe 6-ethoxy-2-naphthyl OCOOMe 5-methoxy-3-indolyl OCOOMe 1.4-dimethoxy-2-naphthyl	0			
propyl OCOOMe 6-ethoxy-2-naphthyl OCOOMe 5-methoxy-3-indolyl OCOOMe 1.4-dimethoxy-2-naphthyl	0		· · · · · · · · · · · · · · · · · · ·	. 1 .
propyl OCOOMe 5-methoxy-3-indolyl propyl OCOOMe 1,4-dimethoxy-2-naphthyl	0			
propyl OCOOMe 1,4-dimethoxy-2-naphthyl	0			
	0		-	
	<u>(0</u>	propyl	OCOOMe	5,6-dimethoxy-2-indolyl
	0	<del></del>		

X	R <sup>1</sup>	R <sup>2</sup>	Y
0	propyl	OCOOEt	1-naphthyl
0	propyl	OCOOEt	2-naphthyl
0	propyl	OCOOEt	2-pyrrolyl
0	propyl	OCOOEt	3-pyrrolyl
0	propyl	OCOOEt	2-fuyl
0	propyl	OCOOEt	3-furyl
0	propyl	OCOOEt	2-thienyl
0	propyl	OCOOE1	3-thienyl
0	propyl	OCOOEt	3-pyrazolyl
0	propyl	OCOOEt	4-pyrazolyl
0	propyl	OCOOEt	2-imidazolyl
0	propyl	OCOOEt	4-imidazolyl
0	propyl	OCOOEt.	2-oxazolyl
0	propyl	OCOOEt	4-oxazolyl
0	propyl	OCOOEt	5-oxazolyl
0	propyl	OCOOEt	2-thiazolyl
0	propyl	OCOOEt	4-thiazolyl
0	propyl	OCOOEt	5-thiazolyl
0	propyl	OCOOEt	2-pyrimidinyl
0	propyl	OCOOEt	4-pyrimidinyl
0	propyl	OCOOEt	5-pyrimidinyl
0	propyl	OCOOEt	2-indolyl
0	propyl	OCOOEt	3-indolyl
0	propyl	OCOOEt	5-indolyl
0	propyl	OCOOEt	6-indolyl
0	propyl	OCOOEt	5-benzimidazolyl
0	propyl	OCOOEt	2-benzofuryl
0	propyl	OCOOEt	3-indazolyl
0	propyl	OCOOEt	2-benzoxazolyl
0	propyl	OCOOEt	4-fluoro-1-naphthyl
0	propyl	OCOOEt	5-chloro-2-thienyl
0	propyl	OCOOEt	4-methyl-1-naphthyl
0	propyl	OCOOEt	1-methyl-2-pyrrolyl
0	propyl	OCOOEt	2-methyl-3-furyl
0	propyl	OCOOEt	5-methyl-2-thienyl
0	propyl	OCOOEt	4-methyl-5-imidazolyl
0	propyl	OCOOEt	1-methyl-3-indolyl
0	propyl	OCOOEt	2-methoxy-1-naphthyl
0	propyl	OCOOEt	3-methoxy-2-naphthyl
0	propyi	OCOOEt	6-ethoxy-2-naphthyl
0	propyl	OCOOEt	5-methoxy-3-indolyl
0	propyl	OCOOEt	1,4-dimethoxy-2-naphthyl
0	propyl	OCOOEt	5,6-dimethoxy-2-indolyl
0	propyl	OCOOEt	5-methoxy-1-methyl-2-indolyl
	L. C. L. V.	Q1 Q1 Q1 Q1 Q1	

		,	
X	R <sup>1</sup>	R <sup>2</sup>	Y
0	n-butyl	OH	1-naphthyl
0	n-butyl	OH	2-naphthyl
0	n-butyl	OH	2-pyrrolyl
0	n-butyl	OH	3-pyrrolyl
0	n-butyl	OH	2-furyl
0	n-butyl	OH	3-furyl
0	n-butyl	OH	2-thienyl
0	n-butyl	OH	3-thienyl
0	n-butyl	OH	3-pyrazolyl
0	n-butyl	OH	4-pyrazolyl
0	n-butyl	OH	2-imidazolyl
0	n-butyl	ОН	4-imidazolyl
0	n-butyl	OH	2-oxazolyl
0	n-butyl	OH	4-oxazolyi
0	n-butyl	OH	5-oxazolyl
0	n-butyl	OH	2-thiazolyl
0	n-butyl	OH	4-thiazolyl
0	n-butyl	OH	5-thiazolyl
0	n-butyl	OH	2-pyrimidinyl
0	n-butyl	OH	4-pyrimidinyl
0	n-butyl	OH	5-pyrimidinyl
0	n-butyl	OH	2-indolyl
0	n-butyl	OH	3-indolyl
0	n-butyl	OH	5-indolyl
0	n-butyl	OH	6-indolyl
0	n-butyl	OH	5-benzimidazolyl
0	n-butyl	ОН	2-benzofuryl
0	n-butyl	ОН	3-indazolyl
0	n-butyl	ОН	2-benzoxazolyl
0	n-butyl	ОН	4-fluoro-1-naphthyl
0	n-butyl	ОН	5-chloro-2-thienyl
O	n-butyl	ОН	4-methyl-1-naphthyl
0	n-butyl	OH	1-methyl-2-pyrrolyl
0	n-butyl	ОН	2-methyl-3-furyl
0	n-butyl	OH	5-methyl-2-thienyl
0	n-butyl	ОН	4-methyl-5-imidazolyl
0	n-butyl	OH	1-methyl-3-indolyl
0	n-butyl	ОН	2-methoxy-1-naphthyl
0	n-butyl	OH	3-methoxy-2-naphthyl
0	n-butyl	OH	6-ethoxy-2-naphthyl
0	n-butyl	OH	5-methoxy-3-indolyl
0	n-butyl	OH	1,4-dimethoxy-2-naphthyl
0	n-butyl	ОН	5,6-dimethoxy-2-indolyl
0	n-butyl	OH	5-methoxy-1-methyl-2-indolyl
	11-Oth y1	C/11	5-methoxy-1-methy1-2-mdory1

X	R <sup>1</sup>	R <sup>2</sup>	Y
0	n-butyl	OCOOMe	1-naphthyl
0	n-butyl	OCOOMe	2-naphthyl
0	n-butyl	OCOOMe	2-pyrrolyl
0	n-butyl	OCOOMe	3-pyrrolyl
0	n-butyl	OCOOMe	2-furyl
0	n-butyl	OCOOMe	3-furyl
0	n-butyl	ОСООМе	2-thienyl
0	n-butyl	OCOOMe	3-thienyl
0	n-butyl	OCOOMe	3-pyrazolyl
0	n-butyl	OCOOMe	4-pyrazolyl
0	n-butyl	OCOOMe	2-imídazolyl
0	n-butyl	OCOOMe	4-imidazolyl
0	n-butyl	OCOOMe	2-oxazolyl
0	n-butyl	OCOOMe	4-oxazolyl
0	n-butyl	OCOOMe	5-oxazolyl
0	n-butyl	OCOOMe	2-thiazolyl
0	n-butyl	OCOOMe	4-thiazolyl
0	n-butyl	OCOOMe	5-thiazolyl
0	n-butyl	OCOOMe	2-pyrimidinyl
()	n-butyl	OCOOMe	4-pyrimidinyl
0	n-butyl	OCOOMe	5-pyrimidinyl
0	n-butyl -	OCOOMe	2-indolyl
0	n-butyl	OCOOMe	3-indolyl
O	n-butyl	OCOOMe	5-indolyl
0	n-butyl	OCOOMe	6-indolyl
0	n-butyl	OCOOMe	5-benzímidazolyl
0	n-butyl	OCOOMe	2-benzofuryl
0	n-butyl	OCOOMe	3-indazolyl
0	n-butyl	OCOOMe	2-benzoxazolyl
0	n-butyl	OCOOMe	4-fluoro-1-naphthyl
0	n-butyl	OCOOMe	5-chloro-2-thienyl
0	n-butyl	OCOOMe	4-methyl-1-naphthyl
0	n-butyl	OCOOMe	1-methyl-2-pyrrolyl
0	n-butyl	OCOOMe	2-methyl-3-furyl
0	n-butyl	OCOOMe	5-methyl-2-thienyl
0	n-butyl	OCOOMe	4-methyl-5-imidazolyl
0	n-butyl	OCOOMe	1-methyl-3-indolyl
0	n-butyl	OCOOMe	2-methoxy-1-naphthyl
O	n-butyl	OCOOMe	3-methoxy-2-naphthyl
0	n-butyl	OCOOMe	6-ethoxy-2-naphthyl
0	n-butyl	OCOOMe	5-methoxy-3-indolyl
0	n-butyl	OCOOMe	1,4-dimethoxy-2-naphthyl
0	n-butyl	OCOOMe	5,6-dimethoxy-2-indolyl
0	n-butyl	OCOOMe	5-methoxy-1-methyl-2-indolyl
			1 1110111111111111111111111111111111111

Х	R <sup>1</sup>	R <sup>2</sup>	Y
0	n-butyl	OCOOEt	1-naphthyl
0	n-butyl	OCOOEt	2-naphthyl
0	n-butyl	OCOOEt	2-pyrrolyl
0	n-butyl	OCOOEt	3-pyrrolyl
0	n-butyl	OCOOEt.	2-furyl
0	n-butyl	OCOOEt	3-furyl
0	n-butyl	OCOOEt	2-thienyl
0	n-butyl	OCOOEt	3-thienyl
0	n-butyl	OCOOEt	3-pyrazolyl
0	n-butyl	OCOOEt	4-pyrazolyl
0	n-butyl	OCOOEt	2-imidazolyl
0	n-butyl	OCOOEt	4-imidazolyl
0	n-butyl	OCOOEt	2-oxazolyl
0	n-butyl	OCOOEt	4-oxazolyl
0	n-butyl	OCOOEt	5-oxazolyl
0	n-butyl	OCOOEt	2-thiazolyl
0	n-butyl	OCOOEI	4-thiazolyl
0	n-butyl	OCOOEt	5-thiazolyl
0	n-butyl	OCOOEt	2-pyrimidinyl
0	n-butyl	OCOOEt	4-pyrimidinyl
0	n-butyl	OCOOEt	5-pyrimidinyl
0	n-butyl	OCOOEt	2-indolyl
0	n-butyl	OCOOEt	3-indolyl
0	n-butyl	OCOOEt	5-indolyl
0	n-butyl	OCOOEt	6-indolyl
0	n-butyl	OCOOEt	5-benzimidazolyl
0	n-butyl	OCOOEt	2-benzofuryl
0	n-butyl	OCOOEt	3-indazolyl
0	n-butyl	OCOOEt	2-benzoxazolyl
0	n-butyl	OCOOEt	4-fluoro-1-naphthyl
0	n-butyl	OCOOEt.	5-chloro-2-thienyl
0	n-butyl	OCOOEt	4-methyl-1-naphthyl
0	n-butyl	OCOOEt	1-methyl-2-pyrrolyl
0	n-butyl	OCOOEt	2-methyl-3-furyl
0	n-butyl	OCOOEt	5-methyl-2-thienyl
0	n-butyl	OCOOEt	4-methyl-5-imidazolyl
0	n-butyl	OCOOEt	1-methyl-3-indolyl
0	n-butyl	OCOOEt	2-methoxy-1-naphthyl
0	n-butyl	OCOOE	3-methoxy-2-naphthyl
0	n-butyl	OCOOEt	6-ethoxy-2-naphthyl
0	n-butyl	OCOOEt	5-methoxy-3-indolyl
0	n-butyl	OCOOEt	1.4-dimethoxy-2-naphthyl
0	n-butyl	OCOOEt	5,6-dimethoxy-2-indolyl

X	R <sup>1</sup>	R <sup>2</sup>	Y
0	n-pentyl	OH	1-naphthyl
0	n-pentyl	OH	2-naphthyl
0	n-pentyl	OH	2-pyrrolyl
0	n-pentyl	OH	3-pyrrolyl
0	n-pentyl	OH	2-furyl
0	n-pentyl	OH	3-furyl
0	n-pentyl	OH	2-thienyl
0	n-pentyl	OH	3-thienyl
0	n-pentyl	OH	3-pyrazolyl
O	n-pentyl	ОН	4-pyrazolyl
0	n-pentyl	OH	2-imidazolyl
0	n-pentyl	OH	4-imidazolyl
0	n-pentyl	OH	2-oxazolyl
0	n-pentyl	OH	4-oxazolyl
Q	n-pentyl	OH	5-oxazolyl
0	n-pentyl	OH	2-thiazolyl
0	n-pentyl	OH	4-thiazolyl
0	n-pentyl	OH	5-thiazolyl
0	n-pentyl	OH	2-pyrimidinyl
0	n-pentyl	OH	4-pyrimidinyl
0	n-pentyl	OH	5-pyrimidinyl
0	n-pentyl	OH	2-indolyl
0	n-pentyl	OH	3-indolyl
0	n-pentyl	OH	5-indolyl
0	n-pentyl	ОН	6-indolyl
0	n-pentyl	OH	5-benzimidazolyl
Ó	n-pentyl	OH	2-benzofuryl
0	n-pentyl	OH	3-indazolyl
0	n-pentyl	OH	2-benzoxazolyl
0	n-pentyl	OH	4-fluoro-1-naphthyl
0	n-pentyl	ОН	5-chloro-2-thienyl
O	n-pentyl	OH	4-methyl-1-naphthyl
0	n-pentyl	OH	1-methyl-2-pyrrolyl
0	n-pentyl	ОН	2-methyl-3-furyl
0	n-pentyl	ОН	5-methyl-2-thienyl
0	n-pentyl	OΉ	4-methyl-5-imidazolyl
0	n-pentyl	OH	1-methyl-3-indolyl
0	n-pentyl	ОН	2-methoxy-1-naphthyl
O	n-pentyl	OH	3-methoxy-2-naphthyl
O	n-pentyl	OH	6-ethoxy-2-naphthyl
O	n-pentyl	OH	5-methoxy-3-indolyl
0	n-pentyl	OH	1,4-dimethoxy-2-naphthyl
0	n-pentyl	OH	5,6-dimethoxy-2-indolyl
0	n-pentyl	OH	5-methoxy-1-methyl-2-indolyl
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X         R¹         R²         Y           O         n-pentyl         OCOOMe         1-naphthyl           O         n-pentyl         OCOOMe         2-naphthyl
O n-pentyl OCOOMe 2-naphthyl
O n-pentyl OCOOMe 2-naphthyl
O n-pentyl OCOOMe 2-pyrrolyl
O n-pentyl OCOOMe 3-pyrrolyl
O n-pentyl OCOOMe 2-furyl
O n-pentyl OCOOMe 3-furyl
O n-pentyl OCOOMe 2-thienyl
O n-pentyl OCOOMe 3-thienyl
O n-pentyl OCOOMe 3-pyrazolyl
O n-pentyl OCOOMe 4-pyrazolyl
O n-pentyl OCOOMe 2-inidazolyl
O n-pentyl OCOOMe 4-imidazolyl
O n-pentyl OCOOMe 2-oxazolyl
O n-pentyl OCOOMe 4-oxazolyl
O n-pentyl OCOOMe 5-oxazolyl
O n-pentyl OCOOMe 2-thiazolyl
O n-pentyl OCOOMe 4-thiazolyl
O n-pentyl OCOOMe 5-thiazolyl
O n-pentyl OCOOMe 2-pyrimidinyl
O n-pentyl OCOOMe 4-pyrimidinyl
O n-pentyl OCOOMe 5-pyrimidinyl
O n-pentyl OCOOMe 2-indolyl
O n-pentyl OCOOMe 3-indolyl
O n-pentyl OCOOMe 5-indolyl
O n-pentyl OCOOMe 6-indolyl
O n-pentyl OCOOMe 5-benzimidazolyl
O n-pentyl OCOOMe 2-benzofuryl
O n-pentyl OCOOMe 3-indazolyl
O n-pentyl OCOOMe 2-benzoxazolyl
O n-pentyl OCOOMe 4-fluoro-1-naphthyl
O n-pentyl OCOOMe 5-chloro-2-thienyl
O n-pentyl OCOOMe 4-methyl-1-naphthyl
O n-pentyl OCOOMe 1-methyl-2-pyrrolyl
O n-pentyl OCOOMe 2-methyl-3-furyl
O n-pentyl OCOOMe 5-methyl-2-thienyl
O n-pentyl OCOOMe 4-methyl-5-imidazolyl
O n-pentyl OCOOMe 1-methyl-3-indolyl
O n-pentyl OCOOMe 2-methoxy-1-naphthyl
O n-pentyl OCOOMe 3-methoxy-2-naphthyl
O n-pentyl OCOOMe 6-ethoxy-2-naphthyl
O n-pentyl OCOOMe 5-methoxy-3-indolyl
O n-pentyl OCOOMe 1,4-dimethoxy-2-naphthyl
O n-pentyl OCOOMe 5,6-dimethoxy-2-indolyl
O n-pentyl OCOOMe 5-methoxy-1-methyl-2-indolyl

X				
O         n-pentyl         OCOOBI         2-naphthyl           O         n-pentyl         OCOOBI         2-pyrrolyl           O         n-pentyl         OCOOBI         3-pyrrolyl           O         n-pentyl         OCOOBI         3-furyl           O         n-pentyl         OCOOBI         3-furyl           O         n-pentyl         OCOOBI         3-thienyl           O         n-pentyl         OCOOBI         3-thienyl           O         n-pentyl         OCOOBI         3-tyrazolyl           O         n-pentyl         OCOOBI         4-pyrazolyl           O         n-pentyl         OCOOBI         4-imidazolyl           O         n-pentyl         OCOOBI         4-imidazolyl           O         n-pentyl         OCOOBI         4-imidazolyl           O         n-pentyl         OCOOBI         4-oxazolyl           O         n-pentyl         OCOOBI         4-oxazolyl           O         n-pentyl         OCOOBI         4-thiazolyl           O         n-pentyl         OCOOBI         4-thiazolyl           O         n-pentyl         OCOOBI         4-thiazolyl           O         n-pentyl         OCO	X	R <sup>1</sup>	R <sup>2</sup>	Y
O         n-pentyl         OCOOBI         2-pyrrolyl           O         n-pentyl         OCOOBI         3-pyrrolyl           O         n-pentyl         OCOOBI         3-furyl           O         n-pentyl         OCOOBI         3-furyl           O         n-pentyl         OCOOBI         3-furyl           O         n-pentyl         OCOOBI         3-furyl           O         n-pentyl         OCOOBI         3-pyrazolyl           O         n-pentyl         OCOOBI         4-pyrazolyl           O         n-pentyl         OCOOBI         2-midazolyl           O         n-pentyl         OCOOBI         2-midazolyl           O         n-pentyl         OCOOBI         2-oxazolyl           O         n-pentyl         OCOOBI         3-thiazolyl           O         n-pentyl         OCOOBI         4-thiazolyl           O         n-pentyl         OCOOBI         3-thiazolyl           O         n-pentyl         OCOOBI         3-thiazolyl           O         n-pentyl         OCOOBI         3-pyrmidinyl           O         n-pentyl         OCOOBI         3-indolyl           O         n-pentyl         OCOOBI <td>0</td> <td>n-pentyl</td> <td>OCOOEt.</td> <td>1-naphthyl</td>	0	n-pentyl	OCOOEt.	1-naphthyl
O         n-pentyl         OCOOBt         3-pyrrolyl           O         n-pentyl         OCOOBt         2-furyl           O         n-pentyl         OCOOBt         3-furyl           O         n-pentyl         OCOOBt         3-thienyl           O         n-pentyl         OCOOBt         3-pyrazolyl           O         n-pentyl         OCOOBt         4-pyrazolyl           O         n-pentyl         OCOOBt         4-thiazolyl           O         n-pentyl	0	n-pentyl	OCOOEt.	2-naphthyl
O         n-pentyl         OCOOBI         2-furyl           O         n-pentyl         OCOOBI         3-furyl           O         n-pentyl         OCOOBI         3-furyl           O         n-pentyl         OCOOBI         3-thienyl           O         n-pentyl         OCOOBI         3-pyrazolyl           O         n-pentyl         OCOOBI         4-pyrazolyl           O         n-pentyl         OCOOBI         2-midazolyl           O         n-pentyl         OCOOBI         4-midazolyl           O         n-pentyl         OCOOBI         4-oxazolyl           O         n-pentyl         OCOOBI         4-oxazolyl           O         n-pentyl         OCOOBI         2-thiazolyl           O         n-pentyl         OCOOBI         4-thiazolyl           O         n-pentyl         OCOOBI         4-thiazolyl           O         n-pentyl         OCOOBI         4-pyrimidinyl           O         n-pentyl         OCOOBI         4-pyrimidinyl           O         n-pentyl         OCOOBI         5-pyrimidinyl           O         n-pentyl         OCOOBI         5-pyrimidinyl           O         n-pentyl         <	0	n-pentyl	OCOOEt	2-pyrrolyl
O         n-pentyl         OCOOEI         3-finyl           O         n-pentyl         OCOOEI         2-thienyl           O         n-pentyl         OCOOEI         3-thienyl           O         n-pentyl         OCOOEI         3-pyrazolyl           O         n-pentyl         OCOOEI         4-pyrazolyl           O         n-pentyl         OCOOEI         4-imidazolyl           O         n-pentyl         OCOOEI         4-imidazolyl           O         n-pentyl         OCOOEI         4-oxazolyl           O         n-pentyl         OCOOEI         4-oxazolyl           O         n-pentyl         OCOOEI         4-thiazolyl           O         n-pentyl         OCOOEI         4-thiazolyl           O         n-pentyl         OCOOEI         5-thiazolyl           O         n-pentyl         OCOOEI         4-pyrimidinyl           O         n-pentyl         OCOOEI         4-pyrimidinyl           O         n-pentyl         OCOOEI         5-pyrimidinyl           O         n-pentyl         OCOOEI         5-pyrimidinyl           O         n-pentyl         OCOOEI         5-pyrimidinyl           O         n-pentyl	О	n-pentyl	OCOOEt	3-pyrrolyl
O         n-pentyl         OCOOEI         2-thienyl           O         n-pentyl         OCOOEI         3-thienyl           O         n-pentyl         OCOOEI         3-pyrazolyl           O         n-pentyl         OCOOEI         4-pyrazolyl           O         n-pentyl         OCOOEI         2-imidazolyl           O         n-pentyl         OCOOEI         4-mazolyl           O         n-pentyl         OCOOEI         4-oxazolyl           O         n-pentyl         OCOOEI         4-oxazolyl           O         n-pentyl         OCOOEI         2-oxazolyl           O         n-pentyl         OCOOEI         4-oxazolyl           O         n-pentyl         OCOOEI         2-thiazolyl           O         n-pentyl         OCOOEI         2-thiazolyl           O         n-pentyl         OCOOEI         4-pyrimidinyl           O         n-pentyl         OCOOEI         4-pyrimidinyl           O         n-pentyl         OCOOEI         4-pyrimidinyl           O         n-pentyl         OCOOEI         4-pyrimidinyl           O         n-pentyl         OCOOEI         3-indolyl           O         n-pentyl	0	n-pentyl	OCOOEt.	2-furyl
O         n-pentyl         OCOOEI         3-thienyl           O         n-pentyl         OCOOEI         3-pyrazolyl           O         n-pentyl         OCOOEI         2-imidazolyl           O         n-pentyl         OCOOEI         2-imidazolyl           O         n-pentyl         OCOOEI         2-oxazolyl           O         n-pentyl         OCOOEI         4-oxazolyl           O         n-pentyl         OCOOEI         5-oxazolyl           O         n-pentyl         OCOOEI         2-thiazolyl           O         n-pentyl         OCOOEI         2-thiazolyl           O         n-pentyl         OCOOEI         4-thiazolyl           O         n-pentyl         OCOOEI         2-pyrimidinyl           O         n-pentyl         OCOOEI         3-thiazolyl           O         n-pentyl         OCOOEI         4-pyrimidinyl           O         n-pentyl         OCOOEI         3-indolyl           O         n-pentyl         OCOOEI         3-indolyl           O         n-pentyl         OCOOEI         3-indolyl           O         n-pentyl         OCOOEI         3-indolyl           O         n-pentyl	О	n-pentyl	OCOOEt	3-furyl
O         n-pentyl         OCOOEI         3-pyrazolyl           O         n-pentyl         OCOOEI         4-pyrazolyl           O         n-pentyl         OCOOEI         2-imidazolyl           O         n-pentyl         OCOOEI         4-imidazolyl           O         n-pentyl         OCOOEI         2-oxazolyl           O         n-pentyl         OCOOEI         3-oxazolyl           O         n-pentyl         OCOOEI         2-thiazolyl           O         n-pentyl         OCOOEI         2-thiazolyl           O         n-pentyl         OCOOEI         2-thiazolyl           O         n-pentyl         OCOOEI         3-thiazolyl           O         n-pentyl         OCOOEI         2-pyrimidinyl           O         n-pentyl         OCOOEI         3-pyrimidinyl           O         n-pentyl         OCOOEI         3-indolyl           O         n-pentyl	0	n-pentyl	OCOOEt	2-thienyl
O         n-pentyl         OCOOEt         4-pyrazolyl           O         n-pentyl         OCOOEt         2-imidazolyl           O         n-pentyl         OCOOEt         2-oxazolyl           O         n-pentyl         OCOOEt         2-oxazolyl           O         n-pentyl         OCOOEt         4-oxazolyl           O         n-pentyl         OCOOEt         5-oxazolyl           O         n-pentyl         OCOOEt         2-thiazolyl           O         n-pentyl         OCOOEt         5-thiazolyl           O         n-pentyl         OCOOEt         5-thiazolyl           O         n-pentyl         OCOOEt         2-pyrimidinyl           O         n-pentyl         OCOOEt         3-pyrimidinyl           O         n-pentyl         OCOOEt         4-pyrimidinyl           O         n-pentyl         OCOOEt         3-indolyl           O         n-pentyl         OCOOEt         3-indolyl           O         n-pentyl         OCOOEt         3-indolyl           O         n-pentyl         OCOOEt         5-benzonidazolyl           O         n-pentyl         OCOOEt         3-indazolyl           O         n-pentyl	0	n-pentyl	OCOOEt	3-thienyl
O         n-pentyl         OCOOEt         2-imidazolyl           O         n-pentyl         OCOOEt         4-imidazolyl           O         n-pentyl         OCOOEt         2-oxazolyl           O         n-pentyl         OCOOEt         4-oxazolyl           O         n-pentyl         OCOOEt         5-oxazolyl           O         n-pentyl         OCOOEt         2-thiazolyl           O         n-pentyl         OCOOEt         4-thiazolyl           O         n-pentyl         OCOOEt         2-pyrimidinyl           O         n-pentyl         OCOOEt         2-pyrimidinyl           O         n-pentyl         OCOOEt         2-pyrimidinyl           O         n-pentyl         OCOOEt         3-indolyl           O         n-pentyl         OCOOEt         2-indolyl           O         n-pentyl         OCOOEt         3-indolyl           O         n-pentyl         OCOOEt         5-indolyl           O         n-pentyl         OCOOEt         5-benzofunyl           O         n-pentyl         OCOOEt         3-indazolyl           O         n-pentyl         OCOOEt         2-benzoxazolyl           O         n-pentyl	0	n-pentyl	OCOOE1	3-pyrazolyl
O         n-pentyl         OCOOBt         4-imidazolyl           O         n-pentyl         OCOOBt         2-oxazolyl           O         n-pentyl         OCOOBt         4-oxazolyl           O         n-pentyl         OCOOBt         5-oxazolyl           O         n-pentyl         OCOOBt         2-thiazolyl           O         n-pentyl         OCOOBt         4-thiazolyl           O         n-pentyl         OCOOBt         2-pyrimidinyl           O         n-pentyl         OCOOBt         2-pyrimidinyl           O         n-pentyl         OCOOBt         3-indolyl           O         n-pentyl         OCOOBt         3-indolyl           O         n-pentyl         OCOOBt         3-indolyl           O         n-pentyl         OCOOBt         5-benzofunyl           O         n-pentyl         OCOOBt         5-benzofunyl           O         n-pentyl         OCOOBt         3-indazolyl           O         n-pentyl         OCOOBt         2-benzoxazolyl           O         n-pentyl         OCOOBt         3-indazolyl           O         n-pentyl         OCOOBt         4-fluoro-1-naphthyl           O         n-pent	0	n-pentyl	OCOOEt	4-pyrazolyl
O         n-pentyl         OCOOEI         2-oxazolyl           O         n-pentyl         OCOOEI         4-oxazolyl           O         n-pentyl         OCOOEI         5-oxazolyl           O         n-pentyl         OCOOEI         2-thiazolyl           O         n-pentyl         OCOOEI         3-thiazolyl           O         n-pentyl         OCOOEI         2-pyrimidinyl           O         n-pentyl         OCOOEI         3-pyrimidinyl           O         n-pentyl         OCOOEI         3-pyrimidinyl           O         n-pentyl         OCOOEI         3-pyrimidinyl           O         n-pentyl         OCOOEI         3-pyrimidinyl           O         n-pentyl         OCOOEI         3-indolyl           O         n-pentyl         OCOOEI         3-indolyl           O         n-pentyl         OCOOEI         3-indolyl           O         n-pentyl         OCOOEI         3-indolyl           O         n-pentyl         OCOOEI         3-indazolyl           O         n-pentyl         OCOOEI         3-indazolyl           O         n-pentyl         OCOOEI         3-indazolyl           O         n-pentyl	0	n-pentyl	OCOOEt	2-imidazolyl
O         n-pentyl         OCOOEI         4-oxazolyl           O         n-pentyl         OCOOEI         5-oxazolyl           O         n-pentyl         OCOOEI         2-thiazolyl           O         n-pentyl         OCOOEI         4-thiazolyl           O         n-pentyl         OCOOEI         5-thiazolyl           O         n-pentyl         OCOOEI         2-pyrimidinyl           O         n-pentyl         OCOOEI         4-pyrimidinyl           O         n-pentyl         OCOOEI         5-pyrimidinyl           O         n-pentyl         OCOOEI         3-indolyl           O         n-pentyl         OCOOEI         3-indolyl           O         n-pentyl         OCOOEI         5-indolyl           O         n-pentyl         OCOOEI         5-indolyl           O         n-pentyl         OCOOEI         5-indolyl           O         n-pentyl         OCOOEI         5-benzimidazolyl           O         n-pentyl         OCOOEI         3-indazolyl           O         n-pentyl         OCOOEI         3-indazolyl           O         n-pentyl         OCOOEI         4-fluoro-1-naphthyl           O         n-pentyl	0	n-pentyl	OCOOEt	4-imidazolyl
O         n-pentyl         OCOOEt         5-oxazolyl           O         n-pentyl         OCOOEt         2-thiazolyl           O         n-pentyl         OCOOEt         4-thiazolyl           O         n-pentyl         OCOOEt         5-thiazolyl           O         n-pentyl         OCOOEt         2-pyrimidinyl           O         n-pentyl         OCOOEt         4-pyrimidinyl           O         n-pentyl         OCOOEt         5-pyrimidinyl           O         n-pentyl         OCOOEt         2-indolyl           O         n-pentyl         OCOOEt         3-indolyl           O         n-pentyl         OCOOEt         5-indolyl           O         n-pentyl         OCOOEt         5-benzonidazolyl           O         n-pentyl         OCOOEt         2-benzofuryl           O         n-pentyl         OCOOEt         3-indazolyl           O         n-pentyl         OCOOEt         2-benzofuryl           O         n-pentyl         OCOOEt         3-indazolyl           O         n-pentyl         OCOOEt         2-benzofuryl           O         n-pentyl         OCOOEt         4-fluoro-1-naphthyl           O	0	n-pentyl	OCOOEt	2-oxazolyl
O         n-pentyl         OCOOEt         2-thiazolyl           O         n-pentyl         OCOOEt         4-thiazolyl           O         n-pentyl         OCOOEt         5-thiazolyl           O         n-pentyl         OCOOEt         2-pyrimidinyl           O         n-pentyl         OCOOEt         4-pyrimidinyl           O         n-pentyl         OCOOEt         5-pyrimidinyl           O         n-pentyl         OCOOEt         2-indolyl           O         n-pentyl         OCOOEt         3-indolyl           O         n-pentyl         OCOOEt         5-indolyl           O         n-pentyl         OCOOEt         5-benzinidazolyl           O         n-pentyl         OCOOEt         2-benzofuryl           O         n-pentyl         OCOOEt         4-fluoro-1-naphthyl           O         n-pentyl         OCOOEt         4-methyl-1-naphthyl           O	0	n-pentyl	OCOOEt	4-oxazolyl
O n-pentyl OCOOEt 5-thiazolyl O n-pentyl OCOOEt 5-thiazolyl O n-pentyl OCOOEt 2-pyrimidinyl O n-pentyl OCOOEt 4-pyrimidinyl O n-pentyl OCOOEt 5-pyrimidinyl O n-pentyl OCOOEt 5-pyrimidinyl O n-pentyl OCOOEt 2-indolyl O n-pentyl OCOOEt 3-indolyl O n-pentyl OCOOEt 5-indolyl O n-pentyl OCOOEt 5-indolyl O n-pentyl OCOOEt 6-indolyl O n-pentyl OCOOEt 5-benzimidazolyl O n-pentyl OCOOEt 3-indazolyl O n-pentyl OCOOEt 3-indazolyl O n-pentyl OCOOEt 3-indazolyl O n-pentyl OCOOEt 3-indazolyl O n-pentyl OCOOEt 4-fluoro-1-naphthyl O n-pentyl OCOOEt 4-fluoro-1-naphthyl O n-pentyl OCOOEt 4-methyl-1-naphthyl O n-pentyl OCOOEt 4-methyl-1-naphthyl O n-pentyl OCOOEt 1-methyl-2-pyrrolyl O n-pentyl OCOOEt 1-methyl-2-thienyl O n-pentyl OCOOEt 1-methyl-3-furyl O n-pentyl OCOOEt 1-methyl-3-inidazolyl O n-pentyl OCOOEt 1-methyl-3-inidazolyl O n-pentyl OCOOEt 1-methyl-3-inidazolyl O n-pentyl OCOOEt 3-methyl-3-inidazolyl O n-pentyl OCOOEt 3-methyl-3-inidazolyl O n-pentyl OCOOEt 3-methyl-3-inidazolyl O n-pentyl OCOOEt 3-methoxy-2-naphthyl O n-pentyl OCOOEt 3-methoxy-2-naphthyl O n-pentyl OCOOEt 5-methoxy-2-naphthyl	0	n-pentyl	OCOOEt	
O n-pentyl OCOOEt 5-thiazolyl O n-pentyl OCOOEt 2-pyrimidinyl O n-pentyl OCOOEt 4-pyrimidinyl O n-pentyl OCOOEt 5-pyrimidinyl O n-pentyl OCOOEt 5-pyrimidinyl O n-pentyl OCOOEt 5-pyrimidinyl O n-pentyl OCOOEt 3-indolyl O n-pentyl OCOOEt 5-indolyl O n-pentyl OCOOEt 5-indolyl O n-pentyl OCOOEt 5-indolyl O n-pentyl OCOOEt 5-benzimidazolyl O n-pentyl OCOOEt 3-indazolyl O n-pentyl OCOOEt 3-indazolyl O n-pentyl OCOOEt 3-indazolyl O n-pentyl OCOOEt 3-indazolyl O n-pentyl OCOOEt 4-fluoro-1-naphthyl O n-pentyl OCOOEt 4-fluoro-1-naphthyl O n-pentyl OCOOEt 4-methyl-1-naphthyl O n-pentyl OCOOEt 1-methyl-2-pyrrolyl O n-pentyl OCOOEt 1-methyl-3-furyl O n-pentyl OCOOEt 1-methyl-3-furyl O n-pentyl OCOOEt 1-methyl-3-inidazolyl O n-pentyl OCOOEt 1-methyl-3-inidazolyl O n-pentyl OCOOEt 1-methyl-3-inidazolyl O n-pentyl OCOOEt 1-methyl-3-inidalyl O n-pentyl OCOOEt 3-methyl-3-inidalyl O n-pentyl OCOOEt 3-methyl-3-inidalyl O n-pentyl OCOOEt 3-methyl-3-inidalyl O n-pentyl OCOOEt 3-methoxy-1-naphthyl O n-pentyl OCOOEt 5-methoxy-1-naphthyl O n-pentyl OCOOEt 5-methoxy-2-naphthyl	0	n-pentyl	OCOOEt.	
O         n-pentyl         OCOOEt         5-thiazolyl           O         n-pentyl         OCOOEt         2-pyrimidinyl           O         n-pentyl         OCOOEt         4-pyrimidinyl           O         n-pentyl         OCOOEt         5-pyrimidinyl           O         n-pentyl         OCOOEt         2-indolyl           O         n-pentyl         OCOOEt         3-indolyl           O         n-pentyl         OCOOEt         5-benzimidazolyl           O         n-pentyl         OCOOEt         2-benzofunyl           O         n-pentyl         OCOOEt         3-indazolyl           O         n-pentyl         OCOOEt         2-benzomazolyl           O         n-pentyl         OCOOEt         2-benzomazolyl           O         n-pentyl         OCOOEt         4-fluoro-1-naphthyl           O         n-pentyl         OCOOEt         5-chloro-2-thienyl           O         n-pentyl         OCOOEt         4-methyl-1-naphthyl           O         n-pentyl         OCOOEt         1-methyl-2-pyrrolyl           O         n-pentyl         OCOOEt         2-methyl-3-furyl           O         n-pentyl         OCOOEt         4-methyl-3-inidazolyl     <	0	n-pentyl	OCOOEt	
O n-pentyl OCOOEt 2-pyrimidinyl O n-pentyl OCOOEt 4-pyrimidinyl O n-pentyl OCOOEt 5-pyrimidinyl O n-pentyl OCOOEt 5-pyrimidinyl O n-pentyl OCOOEt 3-indolyl O n-pentyl OCOOEt 3-indolyl O n-pentyl OCOOEt 5-indolyl O n-pentyl OCOOEt 5-indolyl O n-pentyl OCOOEt 5-indolyl O n-pentyl OCOOEt 5-benzimidazolyl O n-pentyl OCOOEt 3-indazolyl O n-pentyl OCOOEt 3-indazolyl O n-pentyl OCOOEt 3-indazolyl O n-pentyl OCOOEt 3-indazolyl O n-pentyl OCOOEt 4-fluoro-1-naphthyl O n-pentyl OCOOEt 4-methyl-1-naphthyl O n-pentyl OCOOEt 4-methyl-1-naphthyl O n-pentyl OCOOEt 1-methyl-2-pyrrolyl O n-pentyl OCOOEt 5-methyl-3-furyl O n-pentyl OCOOEt 5-methyl-3-inidazolyl O n-pentyl OCOOEt 4-methyl-1-indolyl O n-pentyl OCOOEt 1-methyl-3-inidazolyl O n-pentyl OCOOEt 3-methyl-3-inidazolyl O n-pentyl OCOOEt 3-methyl-3-inidazolyl O n-pentyl OCOOEt 3-methyl-3-inidalyl O n-pentyl OCOOEt 3-methoxy-1-naphthyl O n-pentyl OCOOEt 3-methoxy-1-naphthyl O n-pentyl OCOOEt 5-methoxy-1-naphthyl O n-pentyl OCOOEt 5-methoxy-2-naphthyl	0	n-pentyl	OCOOEt	
O         n-pentyl         OCOOEt         4-pyrimidinyl           O         n-pentyl         OCOOEt         5-pyrimidinyl           O         n-pentyl         OCOOEt         2-indolyl           O         n-pentyl         OCOOEt         3-indolyl           O         n-pentyl         OCOOEt         5-indolyl           O         n-pentyl         OCOOEt         5-benzimidazolyl           O         n-pentyl         OCOOEt         2-benzofuryl           O         n-pentyl         OCOOEt         3-indazolyl           O         n-pentyl         OCOOEt         2-benzoxazolyl           O         n-pentyl         OCOOEt         4-fluoro-1-naphthyl           O         n-pentyl         OCOOEt         5-chloro-2-thienyl           O         n-pentyl         OCOOEt         4-methyl-1-naphthyl           O         n-pentyl         OCOOEt         1-methyl-2-pyrrolyl           O         n-pentyl         OCOOEt         2-methyl-3-furyl           O         n-pentyl         OCOOEt         5-methyl-3-furyl           O         n-pentyl         OCOOEt         4-methyl-5-imidazolyl           O         n-pentyl         OCOOEt         1-methyl-3-indolyl	0	n-pentyl	OCOOE1	
O         n-pentyl         OCOOEt         5-pyrimidinyl           O         n-pentyl         OCOOEt         2-indolyl           O         n-pentyl         OCOOEt         3-indolyl           O         n-pentyl         OCOOEt         5-indolyl           O         n-pentyl         OCOOEt         5-benzimidazolyl           O         n-pentyl         OCOOEt         2-benzofuryl           O         n-pentyl         OCOOEt         2-benzoxazolyl           O         n-pentyl         OCOOEt         2-benzoxazolyl           O         n-pentyl         OCOOEt         4-fluoro-1-naphthyl           O         n-pentyl         OCOOEt         5-chloro-2-thienyl           O         n-pentyl         OCOOEt         4-methyl-1-naphthyl           O         n-pentyl         OCOOEt         1-methyl-2-pyrrolyl           O         n-pentyl         OCOOEt         2-methyl-3-furyl           O         n-pentyl         OCOOEt         5-methyl-3-furyl           O         n-pentyl         OCOOEt         4-methyl-5-imidazolyl           O         n-pentyl         OCOOEt         1-methyl-3-indolyl           O         n-pentyl         OCOOEt         2-methoxy-1-naph	0	n-pentyl	OCOOEt	
O n-pentyl OCOOEt 3-indolyl O n-pentyl OCOOEt 5-indolyl O n-pentyl OCOOEt 5-indolyl O n-pentyl OCOOEt 5-benzimidazolyl O n-pentyl OCOOEt 5-benzimidazolyl O n-pentyl OCOOEt 3-indazolyl O n-pentyl OCOOEt 3-indazolyl O n-pentyl OCOOEt 3-indazolyl O n-pentyl OCOOEt 3-indazolyl O n-pentyl OCOOEt 4-fluoro-1-naphthyl O n-pentyl OCOOEt 4-methyl-1-naphthyl O n-pentyl OCOOEt 4-methyl-1-naphthyl O n-pentyl OCOOEt 1-methyl-2-pyrrolyl O n-pentyl OCOOEt 5-methyl-3-furyl O n-pentyl OCOOEt 5-methyl-3-furyl O n-pentyl OCOOEt 4-methyl-5-imidazolyl O n-pentyl OCOOEt 4-methyl-5-imidazolyl O n-pentyl OCOOEt 3-methyl-3-indolyl O n-pentyl OCOOEt 3-methyl-3-indolyl O n-pentyl OCOOEt 3-methoxy-1-naphthyl O n-pentyl OCOOEt 3-methoxy-1-naphthyl O n-pentyl OCOOEt 3-methoxy-2-naphthyl O n-pentyl OCOOEt 5-methoxy-3-indolyl	0	n-pentyl	OCOOEt	
O n-pentyl OCOOEt 5-indolyl O n-pentyl OCOOEt 6-indolyl O n-pentyl OCOOEt 5-benzimidazolyl O n-pentyl OCOOEt 2-benzofuryl O n-pentyl OCOOEt 3-indazolyl O n-pentyl OCOOEt 3-indazolyl O n-pentyl OCOOEt 2-benzoxazolyl O n-pentyl OCOOEt 4-fluoro-1-naphthyl O n-pentyl OCOOEt 5-chloro-2-thienyl O n-pentyl OCOOEt 4-methyl-1-naphthyl O n-pentyl OCOOEt 1-methyl-2-pyrrolyl O n-pentyl OCOOEt 2-methyl-3-furyl O n-pentyl OCOOEt 3-methyl-3-furyl O n-pentyl OCOOEt 5-methyl-3-furyl O n-pentyl OCOOEt 4-methyl-5-imidazolyl O n-pentyl OCOOEt 4-methyl-5-imidazolyl O n-pentyl OCOOEt 1-methyl-3-indolyl O n-pentyl OCOOEt 3-methoxy-1-naphthyl O n-pentyl OCOOEt 3-methoxy-1-naphthyl O n-pentyl OCOOEt 3-methoxy-2-naphthyl O n-pentyl OCOOEt 5-methoxy-3-indolyl O n-pentyl OCOOEt 5-methoxy-3-indolyl O n-pentyl OCOOEt 5-methoxy-3-indolyl O n-pentyl OCOOEt 5-methoxy-3-indolyl O n-pentyl OCOOEt 5-methoxy-2-naphthyl O n-pentyl OCOOEt 5-methoxy-2-naphthyl O n-pentyl OCOOEt 5-methoxy-2-naphthyl O n-pentyl OCOOEt 5-methoxy-2-naphthyl	0	n-pentyl	OCOOEt	2-indolyl
O         n-pentyl         OCOOEt         5-indolyl           O         n-pentyl         OCOOEt         6-indolyl           O         n-pentyl         OCOOEt         5-benzimidazolyl           O         n-pentyl         OCOOEt         2-benzofuryl           O         n-pentyl         OCOOEt         3-indazolyl           O         n-pentyl         OCOOEt         2-benzoxazolyl           O         n-pentyl         OCOOEt         4-fluoro-1-naphthyl           O         n-pentyl         OCOOEt         5-chloro-2-thienyl           O         n-pentyl         OCOOEt         4-methyl-1-naphthyl           O         n-pentyl         OCOOEt         2-methyl-2-pyrrolyl           O         n-pentyl         OCOOEt         2-methyl-3-furyl           O         n-pentyl         OCOOEt         4-methyl-5-imidazolyl           O         n-pentyl         OCOOEt         4-methyl-5-imidazolyl           O         n-pentyl         OCOOEt         1-methyl-3-indolyl           O         n-pentyl         OCOOEt         2-methoxy-1-naphthyl           O         n-pentyl         OCOOEt         6-ethoxy-2-naphthyl           O         n-pentyl         OCOOEt         <	0	n-pentyl	OCOOEt	
O         n-pentyl         OCOOEt         6-indolyl           O         n-pentyl         OCOOEt         5-benzimidazolyl           O         n-pentyl         OCOOEt         2-benzofuryl           O         n-pentyl         OCOOEt         3-indazolyl           O         n-pentyl         OCOOEt         2-benzoxazolyl           O         n-pentyl         OCOOEt         4-fluoro-1-naphthyl           O         n-pentyl         OCOOEt         5-chloro-2-thienyl           O         n-pentyl         OCOOEt         4-methyl-1-naphthyl           O         n-pentyl         OCOOEt         2-methyl-2-pyrrolyl           O         n-pentyl         OCOOEt         2-methyl-3-furyl           O         n-pentyl         OCOOEt         5-methyl-2-thienyl           O         n-pentyl         OCOOEt         4-methyl-5-imidazolyl           O         n-pentyl         OCOOEt         1-methyl-3-indolyl           O         n-pentyl         OCOOEt         2-methoxy-1-naphthyl           O         n-pentyl         OCOOEt         3-methoxy-2-naphthyl           O         n-pentyl         OCOOEt         5-methoxy-3-indolyl           O         n-pentyl         OCOOEt	0	n-pentyl	OCOOEt	
O n-pentyl OCOOEt 5-benzimidazolyl O n-pentyl OCOOEt 2-benzofuryl O n-pentyl OCOOEt 3-indazolyl O n-pentyl OCOOEt 3-indazolyl O n-pentyl OCOOEt 4-fluoro-1-naphthyl O n-pentyl OCOOEt 5-chloro-2-thienyl O n-pentyl OCOOEt 4-methyl-1-naphthyl O n-pentyl OCOOEt 1-methyl-2-pyrrolyl O n-pentyl OCOOEt 2-methyl-3-furyl O n-pentyl OCOOEt 5-methyl-2-thienyl O n-pentyl OCOOEt 5-methyl-2-thienyl O n-pentyl OCOOEt 4-methyl-5-imidazolyl O n-pentyl OCOOEt 4-methyl-5-imidazolyl O n-pentyl OCOOEt 3-methyl-3-indolyl O n-pentyl OCOOEt 2-methoxy-1-naphthyl O n-pentyl OCOOEt 3-methoxy-2-naphthyl O n-pentyl OCOOEt 5-methoxy-2-naphthyl O n-pentyl OCOOEt 5-methoxy-2-naphthyl O n-pentyl OCOOEt 5-methoxy-3-indolyl O n-pentyl OCOOEt 5-methoxy-3-indolyl O n-pentyl OCOOEt 1,4-dimethoxy-2-naphthyl O n-pentyl OCOOEt 5-methoxy-2-naphthyl O n-pentyl OCOOEt 5,6-dimethoxy-2-naphthyl	0	n-pentyl	OCOOEt	
O         n-pentyl         OCOOEt         2-benzofuyl           O         n-pentyl         OCOOEt         3-indazolyl           O         n-pentyl         OCOOEt         2-benzoxazolyl           O         n-pentyl         OCOOEt         4-fluoro-1-naphthyl           O         n-pentyl         OCOOEt         5-chloro-2-thienyl           O         n-pentyl         OCOOEt         4-methyl-1-naphthyl           O         n-pentyl         OCOOEt         2-methyl-2-pyrrolyl           O         n-pentyl         OCOOEt         2-methyl-3-furyl           O         n-pentyl         OCOOEt         5-methyl-2-thienyl           O         n-pentyl         OCOOEt         4-methyl-5-imidazolyl           O         n-pentyl         OCOOEt         1-methyl-3-indolyl           O         n-pentyl         OCOOEt         2-methoxy-1-naphthyl           O         n-pentyl         OCOOEt         3-methoxy-2-naphthyl           O         n-pentyl         OCOOEt         5-methoxy-3-indolyl           O         n-pentyl         OCOOEt         5-methoxy-2-naphthyl           O         n-pentyl         OCOOEt         5-methoxy-2-naphthyl           O         n-pentyl <td< td=""><td>0</td><td>n-pentyl</td><td>OCOOEt</td><td></td></td<>	0	n-pentyl	OCOOEt	
O         n-pentyl         OCOOEt         3-indazolyl           O         n-pentyl         OCOOEt         2-benzoxazolyl           O         n-pentyl         OCOOEt         4-fluoro-1-naphthyl           O         n-pentyl         OCOOEt         5-chloro-2-thienyl           O         n-pentyl         OCOOEt         4-methyl-1-naphthyl           O         n-pentyl         OCOOEt         1-methyl-2-pyrrolyl           O         n-pentyl         OCOOEt         2-methyl-3-furyl           O         n-pentyl         OCOOEt         5-methyl-2-thienyl           O         n-pentyl         OCOOEt         4-methyl-5-imidazolyl           O         n-pentyl         OCOOEt         1-methyl-3-indolyl           O         n-pentyl         OCOOEt         2-methoxy-1-naphthyl           O         n-pentyl         OCOOEt         3-methoxy-2-naphthyl           O         n-pentyl         OCOOEt         5-methoxy-3-indolyl           O         n-pentyl         OCOOEt         5-methoxy-2-naphthyl           O         n-pentyl         OCOOEt         5-methoxy-2-naphthyl           O         n-pentyl         OCOOEt         5-dimethoxy-2-naphthyl           O         n-pentyl	0	n-pentyl	OCOOEt	
O         n-pentyl         OCOOEt         2-benzoxazolyl           O         n-pentyl         OCOOEt         4-fluoro-1-naphthyl           O         n-pentyl         OCOOEt         5-chloro-2-thienyl           O         n-pentyl         OCOOEt         4-methyl-1-naphthyl           O         n-pentyl         OCOOEt         1-methyl-2-pyrrolyl           O         n-pentyl         OCOOEt         2-methyl-3-furyl           O         n-pentyl         OCOOEt         5-methyl-2-thienyl           O         n-pentyl         OCOOEt         4-methyl-5-imidazolyl           O         n-pentyl         OCOOEt         1-methyl-3-indolyl           O         n-pentyl         OCOOEt         2-methoxy-1-naphthyl           O         n-pentyl         OCOOEt         3-methoxy-2-naphthyl           O         n-pentyl         OCOOEt         5-methoxy-3-indolyl           O         n-pentyl         OCOOEt         5-methoxy-3-indolyl           O         n-pentyl         OCOOEt         5-dimethoxy-2-naphthyl           O         n-pentyl         OCOOEt         5-dimethoxy-2-naphthyl	0	n-pentyl	OCOOEt.	
O         n-pentyl         OCOOBt         4-fluoro-1-naphthyl           O         n-pentyl         OCOOEt         5-chloro-2-thienyl           O         n-pentyl         OCOOEt         4-methyl-1-naphthyl           O         n-pentyl         OCOOEt         1-methyl-2-pyrrolyl           O         n-pentyl         OCOOEt         2-methyl-3-furyl           O         n-pentyl         OCOOEt         5-methyl-2-thienyl           O         n-pentyl         OCOOEt         4-methyl-5-imidazolyl           O         n-pentyl         OCOOEt         1-methyl-3-indolyl           O         n-pentyl         OCOOEt         2-methoxy-1-naphthyl           O         n-pentyl         OCOOEt         3-methoxy-2-naphthyl           O         n-pentyl         OCOOEt         5-methoxy-3-indolyl           O         n-pentyl         OCOOEt         1,4-dimethoxy-2-naphthyl           O         n-pentyl         OCOOEt         5,6-dimethoxy-2-indolyl	0	n-pentyl	OCOOEt	
O         n-pentyl         OCOOBt         5-chloro-2-thienyl           O         n-pentyl         OCOOEt         4-methyl-1-naphthyl           O         n-pentyl         OCOOEt         1-methyl-2-pyrrolyl           O         n-pentyl         OCOOEt         2-methyl-3-furyl           O         n-pentyl         OCOOEt         5-methyl-2-thienyl           O         n-pentyl         OCOOEt         4-methyl-5-imidazolyl           O         n-pentyl         OCOOEt         1-methyl-3-indolyl           O         n-pentyl         OCOOEt         2-methoxy-1-naphthyl           O         n-pentyl         OCOOEt         3-methoxy-2-naphthyl           O         n-pentyl         OCOOEt         5-methoxy-3-indolyl           O         n-pentyl         OCOOEt         1,4-dimethoxy-2-naphthyl           O         n-pentyl         OCOOEt         5,6-dimethoxy-2-indolyl	0	n-pentyl	OCOOEt	
O         n-pentyl         OCOOBt         4-methyl-1-naphthyl           O         n-pentyl         OCOOEt         1-methyl-2-pyrrolyl           O         n-pentyl         OCOOEt         2-methyl-3-furyl           O         n-pentyl         OCOOEt         5-methyl-2-thienyl           O         n-pentyl         OCOOEt         4-methyl-5-imidazolyl           O         n-pentyl         OCOOEt         1-methyl-3-indolyl           O         n-pentyl         OCOOEt         2-methoxy-1-naphthyl           O         n-pentyl         OCOOEt         3-methoxy-2-naphthyl           O         n-pentyl         OCOOEt         5-methoxy-3-indolyl           O         n-pentyl         OCOOEt         1,4-dimethoxy-2-naphthyl           O         n-pentyl         OCOOEt         5,6-dimethoxy-2-indolyl	0			
O         n-pentyl         OCOOEt         1-methyl-2-pyrrolyl           O         n-pentyl         OCOOEt         2-methyl-3-furyl           O         n-pentyl         OCOOEt         5-methyl-2-thienyl           O         n-pentyl         OCOOEt         4-methyl-5-imidazolyl           O         n-pentyl         OCOOEt         1-methyl-3-indolyl           O         n-pentyl         OCOOEt         2-methoxy-1-naphthyl           O         n-pentyl         OCOOEt         3-methoxy-2-naphthyl           O         n-pentyl         OCOOEt         6-ethoxy-2-naphthyl           O         n-pentyl         OCOOEt         5-methoxy-3-indolyl           O         n-pentyl         OCOOEt         1,4-dimethoxy-2-naphthyl           O         n-pentyl         OCOOEt         5,6-dimethoxy-2-indolyl	0			
O         n-pentyl         OCOOEt         2-methyl-3-furyl           O         n-pentyl         OCOOEt         5-methyl-2-thienyl           O         n-pentyl         OCOOEt         4-methyl-5-imidazolyl           O         n-pentyl         OCOOEt         1-methyl-3-indolyl           O         n-pentyl         OCOOEt         2-methoxy-1-naphthyl           O         n-pentyl         OCOOEt         3-methoxy-2-naphthyl           O         n-pentyl         OCOOEt         6-ethoxy-2-naphthyl           O         n-pentyl         OCOOEt         5-methoxy-3-indolyl           O         n-pentyl         OCOOEt         1,4-dimethoxy-2-naphthyl           O         n-pentyl         OCOOEt         5,6-dimethoxy-2-indolyl	0	n-pentyl		
O         n-pentyl         OCOOEt         5-methyl-2-thienyl           O         n-pentyl         OCOOEt         4-methyl-5-imidazolyl           O         n-pentyl         OCOOEt         1-methyl-3-indolyl           O         n-pentyl         OCOOEt         2-methoxy-1-naphthyl           O         n-pentyl         OCOOEt         3-methoxy-2-naphthyl           O         n-pentyl         OCOOEt         5-methoxy-3-indolyl           O         n-pentyl         OCOOEt         1,4-dimethoxy-2-naphthyl           O         n-pentyl         OCOOEt         5,6-dimethoxy-2-indolyl	0			
O         n-pentyl         OCOOEt         4-methyl-5-imidazolyl           O         n-pentyl         OCOOEt         1-methyl-3-indolyl           O         n-pentyl         OCOOEt         2-methoxy-1-naphthyl           O         n-pentyl         OCOOEt         3-methoxy-2-naphthyl           O         n-pentyl         OCOOEt         6-ethoxy-2-naphthyl           O         n-pentyl         OCOOEt         5-methoxy-3-indolyl           O         n-pentyl         OCOOEt         1,4-dimethoxy-2-naphthyl           O         n-pentyl         OCOOEt         5,6-dimethoxy-2-indolyl	0			100
O         n-pentyl         OCOOEt         1-methyl-3-indolyl           O         n-pentyl         OCOOEt         2-methoxy-1-maphthyl           O         n-pentyl         OCOOEt         3-methoxy-2-naphthyl           O         n-pentyl         OCOOEt         6-ethoxy-2-naphthyl           O         n-pentyl         OCOOEt         5-methoxy-3-indolyl           O         n-pentyl         OCOOEt         1,4-dimethoxy-2-naphthyl           O         n-pentyl         OCOOEt         5,6-dimethoxy-2-indolyl	0			
O         n-pentyl         OCOOEt         2-methoxy-1-naphthyl           O         n-pentyl         OCOOEt         3-methoxy-2-naphthyl           O         n-pentyl         OCOOEt         6-ethoxy-2-naphthyl           O         n-pentyl         OCOOEt         5-methoxy-3-indolyl           O         n-pentyl         OCOOEt         1,4-dimethoxy-2-naphthyl           O         n-pentyl         OCOOEt         5,6-dimethoxy-2-indolyl	0			
O         n-pentyl         OCOOEt         3-methoxy-2-naphthyl           O         n-pentyl         OCOOEt         6-ethoxy-2-naphthyl           O         n-pentyl         OCOOEt         5-methoxy-3-indolyl           O         n-pentyl         OCOOEt         1,4-dimethoxy-2-naphthyl           O         n-pentyl         OCOOEt         5,6-dimethoxy-2-indolyl	0			
O         n-pentyl         OCOOEt         6-ethoxy-2-naphthyl           O         n-pentyl         OCOOEt         5-methoxy-3-indolyl           O         n-pentyl         OCOOEt         1,4-dimethoxy-2-naphthyl           O         n-pentyl         OCOOEt         5,6-dimethoxy-2-indolyl				
O         n-pentyl         OCOOEt         5-methoxy-3-indolyl           O         n-pentyl         OCOOEt         1,4-dimethoxy-2-naphthyl           O         n-pentyl         OCOOEt         5,6-dimethoxy-2-indolyl	0			
O         n-pentyl         OCOOEt         1,4-dimethoxy-2-naphthyl           O         n-pentyl         OCOOEt         5,6-dimethoxy-2-indolyl	0			
O n-pentyl OCOOEt 5,6-dimethoxy-2-indolyl	0			
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Х	R <sup>1</sup>	R <sup>2</sup>	Y
S	propyl	OH	1-naphthyl
S	propyl	ОН	2-naphthyl
S	propyl	ОН	2-pyrrolyl
S	propyl	OH	3-pyrrolyl
S	propyl	ОН	2-furyl
S	propyl	OH	3-furyl
S	propyl	OH	2-thienyl
S	propyl	ОН	3-thienyl
S	propyl	OH	3-pyrazolyl
S	propyl	OH	4-pyrazolyl
S	propyl	OH	2-imidazolyl
S	propyl	ОН	4-imidazolyl
S	propyl	OH	2-oxazolyl
S	propyl	OH	4-oxazolył
S	propyl	OH	5-oxazolyl
S	propyl	OH	2-thiazolyl
S	propyl	OH	4-thiazolyl
S	propyl	ОН	5-thiazolyl
S	propyl	OH	2-pyrimidinyl
S	propyl	OH	4-pyrimidinyl
S	propyl	OH	5-pyrimidinyl
S	propyl	OH	2-indolyl
S	propyl	OH	3-indolyl
S	propyl	OH	5-indolyl
S	propyl	OH	6-indolyl
S	propyl	OH	5-benzimidazolyl
S	propyl	OH	2-benzofuryl
S	propyl	OH	3-indazolyl
S	propyl	OH	2-benzoxazolyl
S	propyl	OH	4-fluoro-1-naphthyl
S	propyl	OH	5-chloro-2-thienyl
S	propyl	OH	4-methyl-1-naphthyl
S	propyl	OH	1-methyl-2-pyrrolyl
S	propyl	ОН	2-methyl-3-furyl
S	propyl	OH	5-methyl-2-thienyl
S	propyl	OH	4-methyl-5-imidazolyl
S	propyl	OH	1-methyl-3-indolyl
S	propyl	OH	2-methoxy-1-naphthyl
S	propyl	ОН	3-methoxy-2-naphthyl
S	propyl	OH	6-ethoxy-2-naphthyl
S	propyl	ОН	5-methoxy-3-indolyl
S	propyl	OH	1.4-dimethoxy-2-naphthyl
S	propyl	OH	5,6-dimethoxy-2-indolyl
S	propyl	OH	5-methoxy-1-methyl-2-indolyl

X	R <sup>1</sup>	R <sup>2</sup>	Y
S	propyl	OCOOMe	1-naphthyl
S	propyl	OCOOMe	2-naphthyl
S	propyl	OCOOMe	2-pyrrolyl
S	propyl	OCOOMe	3-pyrrolyl
S	propyl	OCOOMe	2-fuyl
S	propyl	OCOOMe	3-furyl
S	propyl	OCOOMe	2-thienyl
S	propyl	OCOOMe	3-thienyl
S	propyl	OCOOMe	3-pyrazolyl
S	propyl	OCOOMe	4-pyrazolyl
S	propyl	OCOOMe	2-imidazolyl
S	propyl	OCOOMe	4-imidazolyl
S	propyl	OCOOMe	2-oxazolyl
S	propyl	OCOOMe	4-oxazolyl
S	propyl	OCOOMe	5-oxazolyl
S	propyl	OCOOMe	2-thiazolyl
S	propyl	OCOOMe	4-thiazolyl
S	propyl	OCOOMe	5-thiazolyl
S	propyl	OCOOMe	2-pyrimidinyl
S	propyl	OCOOMe	4-pyrimidinyl
S	propyl	OCOOMe	5-pyrimidinyl
S	propyl	OCOOMe	2-indolyl
S	propyl	OCOOMe	3-indolyl
S	propyl	OCOOMe	5-indolyl
S	propyl	OCOOMe	6-indolyl
S	propyl	OCOOMe	5-benzimidazolyl
S	propyl	OCOOMe	2-benzofuryl
S	propyl	OCOOMe	3-indazolyl
S	propyl	OCOOMe	2-benzoxazolyl
S	propyl	OCOOMe	4-fluoro-1-naphthyl
S	propyl	OCOOMe	5-chloro-2-thienyl
S	propyl	OCOOMe	4-methyl-1-naphthyl
S	propyl	OCOOMe	1-methyl-2-pyrrolyl
S	propyl	OCOOMe	2-methyl-3-furyl
S	propyl	OCOOMe	5-methyl-2-thienyl
S	propyl	OCOOMe	4-methyl-5-imidazolyl
S	propyl	OCOOMe	1-methyl-3-indolyl
S	propyl	OCOOMe	2-methoxy-1-naphthyl
S	propyl	OCOOMe	3-methoxy-2-naphthyl
S	propyl	OCOOMe	6-ethoxy-2-naphthyl
S	propyl	OCOOMe	5-methoxy-3-indolyl
S	propyl	OCOOMe	1,4-dimethoxy-2-naphthyl
S	propyl	OCOOMe	5,6-dimethoxy-2-indolyl
S	propyl	OCOOMe	5-methoxy-1-methyl-2-indolyl

X	R <sup>1</sup>	R <sup>2</sup>	Y
S	propyl	OCOOEt	1-naphthyl
S	propyl	OCOOEt	2-naphthyl
S	propyl	OCOOEt	2-pyrrolyl
S	propyl	OCOOEt	3-pyrrolyl
S	propyl	OCOOEt	2-fuyl
S	propyl	OCOOEt	3-furyl
S	propyl	OCOOEt	2-thienyl
S	propyl	OCOOEt	3-thienyl
S	propyl	OCOOEt	3-pyrazolyl
S	propyl	OCOOEt	4-pyrazolyl
S	propyl	OCOOEt	2-imidazolyl
S	propyl	OCOOEt	4-imidazolyl
S	propyl	OCOOEt	2-oxazolyl
S	propyl	OCOOEt	4-oxazolyl
S	propyl	OCOOEt	5-oxazolyl
S	propyl	OCOOEt	2-thiazolyl
S	propyl	OCOOEt	4-thiazolyl
S	propyl	OCOOEt	5-thiazolyl
S	propyl	OCOOEt	2-pyrimidinyl
S	propyl	OCOOEt	4-pyrimidinyl
S	propyl	OCOOEt	5-pyrimidinyl
S	propyl	OCOOEt	2-indolyl
S	propyl	OCOOEt	3-indolyl
S	propyl	OCOOEt	5-indolyl
S	propyl	OCOOEt	6-indolyl
S	propyl	OCOOEt	5-benzimidazolyl
S	propyl	OCOOEt.	2-benzofuryl
S	propyl	OCOOEt	3-indazolyl
S	propyl	OCOOEt	2-benzoxazolyl
S	propyl	OCOOEt	4-fluoro-1-naphthyl
S	propyl	OCOOEt	5-chloro-2-thienyl
S	propyl	OCOOEt	4-methyl-1-naphthyl
S	propyl	OCOOEt	1-methyl-2-pyrrolyl
S	propyl	OCOOEt	2-methyl-3-furyl
S	propyl	OCOOEt	5-methyl-2-thienyl
S	propyl	OCOOEt	4-methyl-5-imidazolyl
S	propyl	OCOOEt	1-methyl-3-indolyl
S	propyl	OCOOE1	2-methoxy-1-naphthyl
S	propyl	OCOOEt	3-methoxy-2-naphthyl
S	propyl	OCOOEt	6-ethoxy-2-naphthyl
S	propyl	OCOOEt	5-methoxy-3-indolyl
S	propyl	OCOOEt	1.4-dimethoxy-2-naphthyl
S S	propyl propyl	OCOOEt OCOOEt	1,4-dimethoxy-2-naphthyl 5,6-dimethoxy-2-indolyl

X	R <sup>1</sup>	R <sup>2</sup>	Y
S	n-butyl	OH	1-naphthyl
S	n-butyl	OH	2-naphthyl
S	n-butyl	OH	2-pyirolyl
S	n-butyl	ОН	3-pyirolyl
S	n-butyl	OH	2-furyl
S	n-butyl	OH	3-furyl
S	n-butyl	OH	2-thienyl
S	n-butyl	OH	3-thienyl
S	n-butyl	OH	3-pyrazolyl
S	n-butyl	OH	4-pyrazolyl
S	n-butyl	OH	2-imidazolyl
S	n-butyl	OH	4-imidazofyl
S	n-butyl	OH	2-oxazolyl
S	n-butyl	OH	4-oxazolyl
S	n-butyl	OH	5-oxazolyl
S	n-butyl	OH	2-thiazolyl
S	n-butyl	OH	4-thiazolyl
S	n-butyl	ОН	5-thiazolyl
S	n-butyl	OH	2-pyrimidinyl
S	n-butyl	OH	4-pyrimidinyl
S	n-butyl	OH	5-pyrimidinyl
S	n-butyl	OH	2-indolyl
S	n-butyl	OH	3-indolyl
S	n-butyl	OH	5-indolyl
S	n-butyl	OH	6-indolyl
S	n-butyl	OH	5-benzimidazolyl
S	n-butyl	OH	2-benzofuryl
S	n-butyl	OH	3-indazolyl
S	n-butyl	ОН	2-benzoxazolyl
S	n-butyl	OH	4-fluoro-1-naphthyl
S	n-butyl	OH	5-chloro-2-thienyl
S	n-butyl	OH	4-methyl-1-naphthyl
S	n-butyl	ОН	1-methyl-2-pyrrolyl
S	n-butyl	OH	2-methyl-3-furyl
S	n-butyl	ОН	5-methyl-2-thienyl
S	n-butyl	ОН	4-methyl-5-imidazolyl
S	n-butyl	ОН	1-methyl-3-mdolyl
S	n-butyl	ОН	2-methoxy-1-naphthyl
S	n-butyl	OH	3-methoxy-2-naphthyl
S	n-butyl	OH	6-ethoxy-2-naphthyl
S	n-butyl	ОН	5-methoxy-3-indolyl
S	n-butyl	ОН	1,4-dimethoxy-2-naphthyl
S	n-butyl	OH	5,6-dimethoxy-2-indolyl
12			

X				
S         n-butyl         OCOOMe         2-naphthyl           S         n-butyl         OCOOMe         2-pyrrolyl           S         n-butyl         OCOOMe         3-pyrrolyl           S         n-butyl         OCOOMe         2-furyl           S         n-butyl         OCOOMe         3-furyl           S         n-butyl         OCOOMe         3-threnyl           S         n-butyl         OCOOMe         3-pyrrazolyl           S         n-butyl         OCOOMe         3-threnyl           S         n-butyl         OCOOMe         4-pyrrazolyl           S         n-butyl         OCOOMe         2-imidazolyl           S         n-butyl         OCOOMe         4-imidazolyl           S         n-butyl         OCOOMe         2-oxazolyl           S         n-butyl         OCOOMe         4-oxazolyl           S         n-butyl         OCOOMe         2-thiazolyl           S         n-butyl         OCOOMe         2-thiazolyl           S         n-butyl         OCOOMe         3-thiazolyl           S         n-butyl         OCOOMe         2-pyrimidinyl           S         n-butyl         OCOOMe	X	R <sup>1</sup>	R <sup>2</sup>	Y
S         n-butyl         OCOOMe         2-pyrrolyl           S         n-butyl         OCOOMe         3-pyrrolyl           S         n-butyl         OCOOMe         2-furyl           S         n-butyl         OCOOMe         3-fueryl           S         n-butyl         OCOOMe         3-pyrazolyl           S         n-butyl         OCOOMe         3-pyrazolyl           S         n-butyl         OCOOMe         4-pyrazolyl           S         n-butyl         OCOOMe         2-imidazolyl           S         n-butyl         OCOOMe         2-imidazolyl           S         n-butyl         OCOOMe         2-oxazolyl           S         n-butyl         OCOOMe         2-oxazolyl           S         n-butyl         OCOOMe         2-thiazolyl           S         n-butyl         OCOOMe         2-thiazolyl           S         n-butyl         OCOOMe         3-thiazolyl           S         n-butyl         OCOOMe         3-thiazolyl           S         n-butyl         OCOOMe         3-pyrimidinyl           S         n-butyl         OCOOMe         3-pyrimidinyl           S         n-butyl         OCOOMe	S	n-butyl	OCOOMe	1-naphthyl
S         n-butyl         OCOOMe         3-pyrrolyl           S         n-butyl         OCOOMe         2-furyl           S         n-butyl         OCOOMe         3-furyl           S         n-butyl         OCOOMe         3-thienyl           S         n-butyl         OCOOMe         3-pyrazolyl           S         n-butyl         OCOOMe         4-pyrazolyl           S         n-butyl         OCOOMe         2-imidazolyl           S         n-butyl         OCOOMe         4-imidazolyl           S         n-butyl         OCOOMe         2-oxazolyl           S         n-butyl         OCOOMe         4-oxazolyl           S         n-butyl         OCOOMe         4-oxazolyl           S         n-butyl         OCOOMe         5-oxazolyl           S         n-butyl         OCOOMe         4-thiazolyl           S         n-butyl         OCOOMe         2-thiazolyl           S         n-butyl         OCOOMe         2-pyrimidinyl           S         n-butyl         OCOOMe         3-pyramidinyl           S         n-butyl         OCOOMe         3-indolyl           S         n-butyl         OCOOMe	S	n-butyl	OCOOMe	2-naphthyl
S         n-butyl         OCOOMe         2-furyl           S         n-butyl         OCOOMe         3-furyl           S         n-butyl         OCOOMe         3-thienyl           S         n-butyl         OCOOMe         3-thienyl           S         n-butyl         OCOOMe         3-pyrazolyl           S         n-butyl         OCOOMe         4-pyrazolyl           S         n-butyl         OCOOMe         2-imidazolyl           S         n-butyl         OCOOMe         4-imidazolyl           S         n-butyl         OCOOMe         4-oxazolyl           S         n-butyl         OCOOMe         5-oxazolyl           S         n-butyl         OCOOMe         5-oxazolyl           S         n-butyl         OCOOMe         2-thiazolyl           S         n-butyl         OCOOMe         5-thiazolyl           S         n-butyl         OCOOMe         4-thiazolyl           S         n-butyl         OCOOMe         4-pyrimidinyl           S         n-butyl         OCOOMe         4-pyrimidinyl           S         n-butyl         OCOOMe         5-pyrimidinyl           S         n-butyl         OCOOMe	S	n-butyl	OCOOMe	2-pyrrolyl
S         n-butyl         OCOOMe         3-finyl           S         n-butyl         OCOOMe         3-thienyl           S         n-butyl         OCOOMe         3-thienyl           S         n-butyl         OCOOMe         3-pyrazzdyl           S         n-butyl         OCOOMe         4-pyrazzdyl           S         n-butyl         OCOOMe         4-imidazolyl           S         n-butyl         OCOOMe         4-imidazolyl           S         n-butyl         OCOOMe         4-imidazolyl           S         n-butyl         OCOOMe         4-oxazolyl           S         n-butyl         OCOOMe         2-thiazolyl           S         n-butyl         OCOOMe         2-thiazolyl           S         n-butyl         OCOOMe         4-thiazolyl           S         n-butyl         OCOOMe         5-thiazolyl           S         n-butyl         OCOOMe         4-pyrimidinyl           S         n-butyl         OCOOMe         4-pyrimidinyl           S         n-butyl         OCOOMe         5-pyrimidinyl           S         n-butyl         OCOOMe         3-indolyl           S         n-butyl         OCOOMe <td>S</td> <td>n-butyl</td> <td>OCOOMe</td> <td>3-pyrrolyl</td>	S	n-butyl	OCOOMe	3-pyrrolyl
S         n-butyl         OCOOMe         2-thienyl           S         n-butyl         OCOOMe         3-thienyl           S         n-butyl         OCOOMe         3-pyrazolyl           S         n-butyl         OCOOMe         4-pyrazolyl           S         n-butyl         OCOOMe         2-inidazolyl           S         n-butyl         OCOOMe         4-inidazolyl           S         n-butyl         OCOOMe         2-oxazolyl           S         n-butyl         OCOOMe         3-oxazolyl           S         n-butyl         OCOOMe         2-thiazolyl           S         n-butyl         OCOOMe         3-thiazolyl           S         n-butyl         OCOOMe         4-thiazolyl           S         n-butyl         OCOOMe         2-thiazolyl           S         n-butyl         OCOOMe         4-pyrimidinyl           S         n-butyl         OCOOMe         4-pyrimidinyl           S         n-butyl         OCOOMe         4-pyrimidinyl           S         n-butyl         OCOOMe         3-indolyl           S         n-butyl         OCOOMe         3-indolyl           S         n-butyl         OCOOMe <td>S</td> <td>n-butyl</td> <td>OCOOMe</td> <td>2-furyl</td>	S	n-butyl	OCOOMe	2-furyl
S         n-butyl         OCOOMe         3-thienyl           S         n-butyl         OCOOMe         3-pyrazolyl           S         n-butyl         OCOOMe         4-pyrazolyl           S         n-butyl         OCOOMe         2-iniidazolyl           S         n-butyl         OCOOMe         4-iniidazolyl           S         n-butyl         OCOOMe         2-oxazolyl           S         n-butyl         OCOOMe         4-oxazolyl           S         n-butyl         OCOOMe         5-oxazolyl           S         n-butyl         OCOOMe         2-thiazolyl           S         n-butyl         OCOOMe         4-thiazolyl           S         n-butyl         OCOOMe         3-thiazolyl           S         n-butyl         OCOOMe         4-pyrimidinyl           S         n-butyl         OCOOMe         4-pyrimidinyl           S         n-butyl         OCOOMe         3-indolyl           S         n-butyl         OCOOMe         3-indolyl           S         n-butyl         OCOOMe         3-indolyl           S         n-butyl         OCOOMe         5-benzomidazolyl           S         n-butyl         OCOOM	S	n-butyl	OCOOMe	3-fuyl
S         n-butyl         OCOOMe         3-pyrazolyl           S         n-butyl         OCOOMe         4-pyrazolyl           S         n-butyl         OCOOMe         2-imidazolyl           S         n-butyl         OCOOMe         4-imidazolyl           S         n-butyl         OCOOMe         2-oxazolyl           S         n-butyl         OCOOMe         4-oxazolyl           S         n-butyl         OCOOMe         5-oxazolyl           S         n-butyl         OCOOMe         2-thiazolyl           S         n-butyl         OCOOMe         4-thiazolyl           S         n-butyl         OCOOMe         2-trinidinyl           S         n-butyl         OCOOMe         4-pyrimidinyl           S         n-butyl         OCOOMe         2-pyrimidinyl           S         n-butyl         OCOOMe         3-indolyl           S         n-butyl         OCOOMe         3-indolyl           S         n-butyl         OCOOMe         3-indolyl           S         n-butyl         OCOOMe         5-benzimidazolyl           S         n-butyl         OCOOMe         3-indazolyl           S         n-butyl         OCOO	S	n-butyl	OCOOMe	2-thienyl
S         n-butyl         OCOOMe         4-pyrazolyl           S         n-butyl         OCOOMe         2-imidazolyl           S         n-butyl         OCOOMe         4-imidazolyl           S         n-butyl         OCOOMe         2-oxazolyl           S         n-butyl         OCOOMe         4-oxazolyl           S         n-butyl         OCOOMe         5-oxazolyl           S         n-butyl         OCOOMe         2-thiazolyl           S         n-butyl         OCOOMe         4-thiazolyl           S         n-butyl         OCOOMe         5-thiazolyl           S         n-butyl         OCOOMe         2-pyrimidinyl           S         n-butyl         OCOOMe         4-pyrimidinyl           S         n-butyl         OCOOMe         3-indolyl           S         n-butyl         OCOOMe         3-indolyl           S         n-butyl         OCOOMe         3-indolyl           S         n-butyl         OCOOMe         5-benzimidazolyl           S         n-butyl         OCOOMe         5-benzimidazolyl           S         n-butyl         OCOOMe         2-benzofuryl           S         n-butyl <td< td=""><td>S</td><td>n-butyl</td><td>OCOOMe</td><td>3-thienyl</td></td<>	S	n-butyl	OCOOMe	3-thienyl
S         n-butyl         OCOOMe         2-imidazolyl           S         n-butyl         OCOOMe         4-imidazolyl           S         n-butyl         OCOOMe         2-oxazolyl           S         n-butyl         OCOOMe         4-oxazolyl           S         n-butyl         OCOOMe         5-oxazolyl           S         n-butyl         OCOOMe         2-thiazolyl           S         n-butyl         OCOOMe         4-thiazolyl           S         n-butyl         OCOOMe         5-thiazolyl           S         n-butyl         OCOOMe         2-pyrimidinyl           S         n-butyl         OCOOMe         4-pyrimidinyl           S         n-butyl         OCOOMe         2-pyrimidinyl           S         n-butyl         OCOOMe         2-indolyl           S         n-butyl         OCOOMe         3-indolyl           S         n-butyl         OCOOMe         5-indolyl           S         n-butyl         OCOOMe         5-benzinidazolyl           S         n-butyl         OCOOMe         3-indazolyl           S         n-butyl         OCOOMe         3-indazolyl           S         n-butyl         OCO	S	n-butyl	OCOOMe	3-pyrazolyl
S         n-butyl         OCOOMe         4-imidazolyl           S         n-butyl         OCOOMe         2-oxazolyl           S         n-butyl         OCOOMe         4-oxazolyl           S         n-butyl         OCOOMe         5-oxazolyl           S         n-butyl         OCOOMe         2-thiazolyl           S         n-butyl         OCOOMe         4-thiazolyl           S         n-butyl         OCOOMe         5-thiazolyl           S         n-butyl         OCOOMe         2-pyrimidinyl           S         n-butyl         OCOOMe         4-pyrimidinyl           S         n-butyl         OCOOMe         5-pyrimidinyl           S         n-butyl         OCOOMe         2-indolyl           S         n-butyl         OCOOMe         3-indolyl           S         n-butyl         OCOOMe         3-indolyl           S         n-butyl         OCOOMe         5-indolyl           S         n-butyl         OCOOMe         5-benzonidazolyl           S         n-butyl         OCOOMe         3-indazolyl           S         n-butyl         OCOOMe         2-benzofuryl           S         n-butyl         OCOOM	S	n-butyl	OCOOMe	4-pyrazolyl
S n-butyl OCOOMe 2-oxazolyl S n-butyl OCOOMe 4-oxazolyl S n-butyl OCOOMe 5-oxazolyl S n-butyl OCOOMe 5-oxazolyl S n-butyl OCOOMe 2-thiazolyl S n-butyl OCOOMe 4-thiazolyl S n-butyl OCOOMe 5-thiazolyl S n-butyl OCOOMe 5-thiazolyl S n-butyl OCOOMe 2-pyrimidinyl S n-butyl OCOOMe 4-pyrimidinyl S n-butyl OCOOMe 3-pyrimidinyl S n-butyl OCOOMe 3-indolyl S n-butyl OCOOMe 3-indolyl S n-butyl OCOOMe 5-indolyl S n-butyl OCOOMe 5-indolyl S n-butyl OCOOMe 5-indolyl S n-butyl OCOOMe 5-benzimidazolyl S n-butyl OCOOMe 5-benzimidazolyl S n-butyl OCOOMe 5-benzimidazolyl S n-butyl OCOOMe 3-indazolyl S n-butyl OCOOMe 4-fluoro-1-naphthyl S n-butyl OCOOMe 4-fluoro-2-thienyl S n-butyl OCOOMe 5-chloro-2-thienyl S n-butyl OCOOMe 1-methyl-2-thienyl S n-butyl OCOOMe 5-methyl-3-furyl S n-butyl OCOOMe 5-methyl-3-furyl S n-butyl OCOOMe 5-methyl-3-indolyl S n-butyl OCOOMe 1-methyl-3-indolyl S n-butyl OCOOMe 3-methoxy-2-naphthyl S n-butyl OCOOMe 5-methoxy-3-indolyl	S	n-butyl	OCOOMe	2-imidazolyl
8         n-butyl         OCOOMe         4-oxazolyl           8         n-butyl         OCOOMe         5-oxazolyl           8         n-butyl         OCOOMe         2-thiazolyl           8         n-butyl         OCOOMe         4-thiazolyl           8         n-butyl         OCOOMe         2-pyrimidinyl           8         n-butyl         OCOOMe         2-pyrimidinyl           8         n-butyl         OCOOMe         4-pyrimidinyl           8         n-butyl         OCOOMe         4-pyrimidinyl           9         n-butyl         OCOOMe         2-pyrimidinyl           9         n-butyl         OCOOMe         3-indolyl           9         n-butyl         OCOOMe         3-indolyl           9         n-butyl         OCOOMe         5-benzimidazolyl           9         n-butyl         OCOOMe         3-indazolyl           9         n-butyl         OCOOMe         2-benzoxazolyl           9         n-butyl         OCOOMe         2-benzoxazolyl           10         N-butyl         OCOOMe         3-indazolyl           10         N-butyl         OCOOMe         4-methyl-1-naphthyl           10         N-buty	S	n-butyl	OCOOMe	4-imidazolyl
8         n-butyl         OCOOMe         5-oxazolyl           8         n-butyl         OCOOMe         2-thiazolyl           8         n-butyl         OCOOMe         4-thiazolyl           8         n-butyl         OCOOMe         5-thiazolyl           8         n-butyl         OCOOMe         2-pyrimidinyl           8         n-butyl         OCOOMe         4-pyrimidinyl           8         n-butyl         OCOOMe         4-pyrimidinyl           8         n-butyl         OCOOMe         2-pyrimidinyl           8         n-butyl         OCOOMe         2-indolyl           9         n-butyl         OCOOMe         3-indolyl           9         n-butyl         OCOOMe         5-indolyl           9         n-butyl         OCOOMe         5-indolyl           9         n-butyl         OCOOMe         5-benzimidazolyl           9         n-butyl         OCOOMe         2-benzofuryl           9         n-butyl         OCOOMe         3-indazolyl           9         n-butyl         OCOOMe         2-benzoxazolyl           9         n-butyl         OCOOMe         4-fluoro-1-naphthyl           9         n-butyl	S	n-butyl	OCOOMe	2-oxazolyl
S         n-butyl         OCOOMe         5-oxazolyl           S         n-butyl         OCOOMe         2-thiazolyl           S         n-butyl         OCOOMe         4-thiazolyl           S         n-butyl         OCOOMe         5-thiazolyl           S         n-butyl         OCOOMe         2-pyrimidinyl           S         n-butyl         OCOOMe         4-pyrimidinyl           S         n-butyl         OCOOMe         4-pyrimidinyl           S         n-butyl         OCOOMe         2-pyrimidinyl           S         n-butyl         OCOOMe         2-indolyl           S         n-butyl         OCOOMe         3-indolyl           S         n-butyl         OCOOMe         5-indolyl           S         n-butyl         OCOOMe         6-indolyl           S         n-butyl         OCOOMe         5-benzimidazolyl           S         n-butyl         OCOOMe         2-benzonazolyl           S         n-butyl         OCOOMe         2-benzonazolyl           S         n-butyl         OCOOMe         4-fluoro-1-naphthyl           S         n-butyl         OCOOMe         5-chloro-2-thienyl           S         n-butyl	S	n-butyl	OCOOMe	4-oxazolyl
S         n-butyl         OCOOMe         2-thiazolyl           S         n-butyl         OCOOMe         4-thiazolyl           S         n-butyl         OCOOMe         5-thiazolyl           S         n-butyl         OCOOMe         2-pyrimidinyl           S         n-butyl         OCOOMe         4-pyrimidinyl           S         n-butyl         OCOOMe         5-pyrimidinyl           S         n-butyl         OCOOMe         2-indolyl           S         n-butyl         OCOOMe         3-indolyl           S         n-butyl         OCOOMe         5-benzimidazolyl           S         n-butyl         OCOOMe         5-benzimidazolyl           S         n-butyl         OCOOMe         2-benzofuryl           S         n-butyl         OCOOMe         3-indazolyl           S         n-butyl         OCOOMe         3-indazolyl           S         n-butyl         OCOOMe         3-indazolyl           S         n-butyl         OCOOMe         3-indazolyl           S         n-butyl         OCOOMe         4-fluoro-1-naphthyl           S         n-butyl         OCOOMe         4-methyl-1-naphthyl           S         n-b	S		OCOOMe	5-oxazolyl
S         n-butyl         OCOOMe         5-thiazolyl           S         n-butyl         OCOOMe         2-pyrimidinyl           S         n-butyl         OCOOMe         4-pyrimidinyl           S         n-butyl         OCOOMe         5-pyrimidinyl           S         n-butyl         OCOOMe         2-indolyl           S         n-butyl         OCOOMe         3-indolyl           S         n-butyl         OCOOMe         5-indolyl           S         n-butyl         OCOOMe         5-benzimidazolyl           S         n-butyl         OCOOMe         2-benzofunyl           S         n-butyl         OCOOMe         3-indazolyl           S         n-butyl         OCOOMe         2-benzofunyl           S         n-butyl         OCOOMe         2-benzofunyl           S         n-butyl         OCOOMe         4-fluoro-1-naphthyl           S         n-butyl         OCOOMe         4-methyl-1-naphthyl           S         n-butyl         OCOOMe         4-methyl-2-pyrrolyl           S         n-butyl         OCOOMe         2-methyl-3-furyl           S         n-butyl         OCOOMe         4-methyl-5-imidazolyl           S <td>S</td> <td></td> <td>OCOOMe</td> <td>2-thiazolyl</td>	S		OCOOMe	2-thiazolyl
S         n-butyl         OCOOMe         2-pyrimidinyl           S         n-butyl         OCOOMe         4-pyrimidinyl           S         n-butyl         OCOOMe         5-pyrimidinyl           S         n-butyl         OCOOMe         2-indolyl           S         n-butyl         OCOOMe         3-indolyl           S         n-butyl         OCOOMe         6-indolyl           S         n-butyl         OCOOMe         5-benzimidazolyl           S         n-butyl         OCOOMe         2-benzofuryl           S         n-butyl         OCOOMe         3-indazolyl           S         n-butyl         OCOOMe         2-benzofuryl           S         n-butyl         OCOOMe         2-benzoxazolyl           S         n-butyl         OCOOMe         4-fluoro-1-naphthyl           S         n-butyl         OCOOMe         5-chloro-2-thienyl           S         n-butyl         OCOOMe         4-methyl-1-naphthyl           S         n-butyl         OCOOMe         2-methyl-2-pyrrolyl           S         n-butyl         OCOOMe         2-methyl-3-furyl           S         n-butyl         OCOOMe         4-methyl-5-imidazolyl	S	n-butyl	OCOOMe	4-thiazolyl
S n-butyl OCOOMe 5-pyrimidinyl S n-butyl OCOOMe 5-pyrimidinyl S n-butyl OCOOMe 2-indolyl S n-butyl OCOOMe 3-indolyl S n-butyl OCOOMe 5-indolyl S n-butyl OCOOMe 5-indolyl S n-butyl OCOOMe 6-indolyl S n-butyl OCOOMe 5-benzimidazolyl S n-butyl OCOOMe 3-indazolyl S n-butyl OCOOMe 3-indazolyl S n-butyl OCOOMe 3-indazolyl S n-butyl OCOOMe 3-indazolyl S n-butyl OCOOMe 4-fluoro-1-naphthyl S n-butyl OCOOMe 5-chloro-2-thienyl S n-butyl OCOOMe 4-methyl-1-naphthyl S n-butyl OCOOMe 1-methyl-2-pyrrolyl S n-butyl OCOOMe 1-methyl-3-furyl S n-butyl OCOOMe 5-methyl-3-furyl S n-butyl OCOOMe 4-methyl-5-inidazolyl S n-butyl OCOOMe 1-methyl-3-indolyl S n-butyl OCOOMe 3-methyl-3-indolyl S n-butyl OCOOMe 3-methoxy-1-naphthyl S n-butyl OCOOMe 3-methoxy-2-naphthyl S n-butyl OCOOMe 3-methoxy-2-naphthyl S n-butyl OCOOMe 5-methoxy-3-indolyl	S	n-butyl	OCOOMe	5-thiazolyl
S n-butyl OCOOMe 5-pyrimidinyl S n-butyl OCOOMe 5-pyrimidinyl S n-butyl OCOOMe 2-indolyl S n-butyl OCOOMe 3-indolyl S n-butyl OCOOMe 5-indolyl S n-butyl OCOOMe 5-indolyl S n-butyl OCOOMe 6-indolyl S n-butyl OCOOMe 5-benzimidazolyl S n-butyl OCOOMe 3-indazolyl S n-butyl OCOOMe 3-indazolyl S n-butyl OCOOMe 3-indazolyl S n-butyl OCOOMe 3-indazolyl S n-butyl OCOOMe 4-fluoro-1-naphthyl S n-butyl OCOOMe 5-chloro-2-thienyl S n-butyl OCOOMe 4-methyl-1-naphthyl S n-butyl OCOOMe 1-methyl-2-pyrrolyl S n-butyl OCOOMe 1-methyl-3-furyl S n-butyl OCOOMe 5-methyl-3-furyl S n-butyl OCOOMe 1-methyl-3-inidazolyl S n-butyl OCOOMe 1-methyl-3-inidazolyl S n-butyl OCOOMe 3-methyl-3-inidazolyl S n-butyl OCOOMe 3-methyl-3-inidazolyl S n-butyl OCOOMe 3-methoxy-1-naphthyl S n-butyl OCOOMe 3-methoxy-2-naphthyl S n-butyl OCOOMe 3-methoxy-2-naphthyl S n-butyl OCOOMe 5-methoxy-3-indolyl	S	n-butyl	OCOOMe	2-pyrimidinyl
8 n-butyl OCOOMe 2-indolyl 8 n-butyl OCOOMe 3-indolyl 8 n-butyl OCOOMe 5-indolyl 8 n-butyl OCOOMe 5-indolyl 8 n-butyl OCOOMe 6-indolyl 8 n-butyl OCOOMe 5-benzimidazolyl 8 n-butyl OCOOMe 2-benzofuryl 8 n-butyl OCOOMe 3-indazolyl 9 n-butyl OCOOMe 2-benzoxazolyl 9 n-butyl OCOOMe 2-benzoxazolyl 9 n-butyl OCOOMe 4-fluoro-1-naphthyl 9 n-butyl OCOOMe 4-methyl-1-naphthyl 9 n-butyl OCOOMe 4-methyl-1-naphthyl 9 n-butyl OCOOMe 1-methyl-2-pyrrolyl 9 n-butyl OCOOMe 2-methyl-3-furyl 9 n-butyl OCOOMe 4-methyl-3-inidazolyl 9 n-butyl OCOOMe 4-methyl-5-inidazolyl 9 n-butyl OCOOMe 1-methyl-5-inidazolyl 9 n-butyl OCOOMe 1-methyl-3-indolyl 9 n-butyl OCOOMe 3-methoxy-1-naphthyl 9 n-butyl OCOOMe 3-methoxy-2-naphthyl 9 n-butyl OCOOMe 3-methoxy-2-naphthyl 9 n-butyl OCOOMe 5-methoxy-2-naphthyl 9 n-butyl OCOOMe 5-methoxy-2-naphthyl 9 n-butyl OCOOMe 5-methoxy-2-naphthyl 9 n-butyl OCOOMe 5-methoxy-3-indolyl 9 n-butyl OCOOMe 5-methoxy-2-naphthyl 9 n-butyl OCOOMe 5-methoxy-2-naphthyl 9 n-butyl OCOOMe 5-methoxy-2-indolyl	S	n-butyl	OCOOMe	
S n-butyl OCOOMe 3-indolyl S n-butyl OCOOMe 5-indolyl S n-butyl OCOOMe 6-indolyl S n-butyl OCOOMe 5-benzimidazolyl S n-butyl OCOOMe 5-benzimidazolyl S n-butyl OCOOMe 2-benzofuryl S n-butyl OCOOMe 3-indazolyl S n-butyl OCOOMe 2-benzoxazolyl S n-butyl OCOOMe 4-fluoro-1-naphthyl S n-butyl OCOOMe 5-chloro-2-thienyl S n-butyl OCOOMe 4-methyl-1-naphthyl S n-butyl OCOOMe 1-methyl-2-pyrrolyl S n-butyl OCOOMe 5-methyl-3-furyl S n-butyl OCOOMe 5-methyl-3-furyl S n-butyl OCOOMe 4-methyl-5-inidazolyl S n-butyl OCOOMe 4-methyl-5-inidazolyl S n-butyl OCOOMe 1-methyl-5-inidazolyl S n-butyl OCOOMe 1-methyl-3-indolyl S n-butyl OCOOMe 3-methoxy-1-naphthyl S n-butyl OCOOMe 3-methoxy-2-naphthyl S n-butyl OCOOMe 5-methoxy-2-naphthyl S n-butyl OCOOMe 5-methoxy-2-naphthyl S n-butyl OCOOMe 5-methoxy-3-indolyl S n-butyl OCOOMe 5-methoxy-3-indolyl S n-butyl OCOOMe 5-methoxy-3-indolyl S n-butyl OCOOMe 5-methoxy-3-indolyl	S	n-butyl	OCOOMe	5-pyrimidinyl
8 n-butyl OCOOMe 5-indolyl 8 n-butyl OCOOMe 6-indolyl 8 n-butyl OCOOMe 5-benzinidazolyl 8 n-butyl OCOOMe 2-benzofuryl 8 n-butyl OCOOMe 3-indazolyl 8 n-butyl OCOOMe 3-indazolyl 8 n-butyl OCOOMe 2-benzoxazolyl 8 n-butyl OCOOMe 4-fluoro-1-naphthyl 8 n-butyl OCOOMe 5-chloro-2-thienyl 9 n-butyl OCOOMe 4-methyl-1-naphthyl 9 n-butyl OCOOMe 1-methyl-2-pyrrolyl 9 n-butyl OCOOMe 2-methyl-3-furyl 9 n-butyl OCOOMe 5-methyl-3-furyl 9 n-butyl OCOOMe 4-methyl-5-inidazolyl 9 n-butyl OCOOMe 1-methyl-5-inidazolyl 9 n-butyl OCOOMe 1-methyl-3-indolyl 9 n-butyl OCOOMe 2-methoxy-1-naphthyl 9 n-butyl OCOOMe 3-methoxy-1-naphthyl 9 n-butyl OCOOMe 3-methoxy-2-naphthyl 9 n-butyl OCOOMe 5-methoxy-2-naphthyl 9 n-butyl OCOOMe 5-methoxy-2-naphthyl 9 n-butyl OCOOMe 5-methoxy-2-naphthyl 9 n-butyl OCOOMe 5-methoxy-3-indolyl 9 n-butyl OCOOMe 5-methoxy-3-indolyl 9 n-butyl OCOOMe 5-methoxy-2-naphthyl	S	n-butyl	OCOOMe	2-indolyl
S n-butyl OCOOMe 5-benzinidazolyl S n-butyl OCOOMe 5-benzinidazolyl S n-butyl OCOOMe 2-benzofuryl S n-butyl OCOOMe 3-indazolyl S n-butyl OCOOMe 2-benzoxazolyl S n-butyl OCOOMe 4-fluoro-1-naphthyl S n-butyl OCOOMe 5-chloro-2-thienyl S n-butyl OCOOMe 4-methyl-1-naphthyl S n-butyl OCOOMe 1-methyl-2-pyrrolyl S n-butyl OCOOMe 2-methyl-3-furyl S n-butyl OCOOMe 5-methyl-3-furyl S n-butyl OCOOMe 4-methyl-5-imidazolyl S n-butyl OCOOMe 4-methyl-5-imidazolyl S n-butyl OCOOMe 1-methyl-3-indolyl S n-butyl OCOOMe 3-methyl-3-indolyl S n-butyl OCOOMe 3-methoxy-1-naphthyl S n-butyl OCOOMe 5-methoxy-1-naphthyl S n-butyl OCOOMe 5-methoxy-1-naphthyl S n-butyl OCOOMe 5-methoxy-2-naphthyl S n-butyl OCOOMe 5-methoxy-2-naphthyl S n-butyl OCOOMe 5-methoxy-2-naphthyl S n-butyl OCOOMe 5-methoxy-3-indolyl S n-butyl OCOOMe 5-methoxy-3-indolyl S n-butyl OCOOMe 5-methoxy-2-naphthyl S n-butyl OCOOMe 5-methoxy-2-naphthyl	S	n-butyl	OCOOMe	3-indolyl
S n-butyl OCOOMe 3-benzimidazolyl S n-butyl OCOOMe 2-benzofuryl S n-butyl OCOOMe 3-indazolyl S n-butyl OCOOMe 3-indazolyl S n-butyl OCOOMe 2-benzoxazolyl S n-butyl OCOOMe 4-fluoro-1-naphthyl S n-butyl OCOOMe 5-chloro-2-thienyl S n-butyl OCOOMe 4-methyl-1-naphthyl S n-butyl OCOOMe 1-methyl-3-furyl S n-butyl OCOOMe 2-methyl-3-furyl S n-butyl OCOOMe 5-methyl-3-furyl S n-butyl OCOOMe 4-methyl-5-imidazolyl S n-butyl OCOOMe 1-methyl-5-imidazolyl S n-butyl OCOOMe 1-methyl-3-indolyl S n-butyl OCOOMe 2-methoxy-1-naphthyl S n-butyl OCOOMe 3-methoxy-2-naphthyl S n-butyl OCOOMe 5-methoxy-3-indolyl S n-butyl OCOOMe 5-methoxy-2-naphthyl S n-butyl OCOOMe 5-methoxy-2-naphthyl S n-butyl OCOOMe 5.6-dimethoxy-2-naphthyl	S	n-butyl	OCOOMe	5-indolyl
S         n-butyl         OCOOMe         2-benzofuryl           S         n-butyl         OCOOMe         3-indazolyl           S         n-butyl         OCOOMe         2-benzoxazolyl           S         n-butyl         OCOOMe         4-fluoro-1-naphthyl           S         n-butyl         OCOOMe         5-chloro-2-thienyl           S         n-butyl         OCOOMe         4-methyl-1-naphthyl           S         n-butyl         OCOOMe         2-methyl-3-furyl           S         n-butyl         OCOOMe         5-methyl-2-thienyl           S         n-butyl         OCOOMe         4-methyl-5-imidazolyl           S         n-butyl         OCOOMe         1-methyl-3-indolyl           S         n-butyl         OCOOMe         2-methoxy-1-naphthyl           S         n-butyl         OCOOMe         3-methoxy-2-naphthyl           S         n-butyl         OCOOMe         5-methoxy-3-indolyl           S         n-butyl         OCOOMe         5-methoxy-3-indolyl           S         n-butyl         OCOOMe         5-methoxy-2-naphthyl           S         n-butyl         OCOOMe         5-methoxy-2-naphthyl           S         n-butyl         OCOOMe	S	n-butyl	OCOOMe	6-indolyl
S         n-butyl         OCOOMe         2-benzofuryl           S         n-butyl         OCOOMe         3-indazolyl           S         n-butyl         OCOOMe         2-benzoxazolyl           S         n-butyl         OCOOMe         4-fluoro-1-naphthyl           S         n-butyl         OCOOMe         5-chloro-2-thienyl           S         n-butyl         OCOOMe         4-methyl-1-naphthyl           S         n-butyl         OCOOMe         1-methyl-2-pyrrolyl           S         n-butyl         OCOOMe         2-methyl-3-furyl           S         n-butyl         OCOOMe         5-methyl-2-thienyl           S         n-butyl         OCOOMe         4-methyl-5-imidazolyl           S         n-butyl         OCOOMe         1-methyl-3-indolyl           S         n-butyl         OCOOMe         2-methoxy-1-naphthyl           S         n-butyl         OCOOMe         3-methoxy-2-naphthyl           S         n-butyl         OCOOMe         5-methoxy-3-indolyl           S         n-butyl         OCOOMe         5-methoxy-2-naphthyl           S         n-butyl         OCOOMe         5-methoxy-2-naphthyl           S         n-butyl         OCOOMe	S		OCOOMe	
S         n-butyl         OCOOMe         2-benzoxazolyl           S         n-butyl         OCOOMe         4-fluoro-1-naphthyl           S         n-butyl         OCOOMe         5-chloro-2-thienyl           S         n-butyl         OCOOMe         4-methyl-1-naphthyl           S         n-butyl         OCOOMe         1-methyl-2-pyrrolyl           S         n-butyl         OCOOMe         2-methyl-3-furyl           S         n-butyl         OCOOMe         5-methyl-2-thienyl           S         n-butyl         OCOOMe         4-methyl-5-imidazolyl           S         n-butyl         OCOOMe         1-methyl-3-indolyl           S         n-butyl         OCOOMe         2-methoxy-1-naphthyl           S         n-butyl         OCOOMe         3-methoxy-2-naphthyl           S         n-butyl         OCOOMe         6-ethoxy-2-naphthyl           S         n-butyl         OCOOMe         5-methoxy-3-indolyl           S         n-butyl         OCOOMe         5-methoxy-2-naphthyl	S	n-butyl	OCOOMe	
S         n-butyl         OCOOMe         2-benzoxazolyl           S         n-butyl         OCOOMe         4-fluoro-1-naphthyl           S         n-butyl         OCOOMe         5-chloro-2-thienyl           S         n-butyl         OCOOMe         4-methyl-1-naphthyl           S         n-butyl         OCOOMe         1-methyl-2-pyrrolyl           S         n-butyl         OCOOMe         2-methyl-3-furyl           S         n-butyl         OCOOMe         5-methyl-2-thienyl           S         n-butyl         OCOOMe         4-methyl-3-inidazolyl           S         n-butyl         OCOOMe         1-methyl-3-indolyl           S         n-butyl         OCOOMe         2-methoxy-1-naphthyl           S         n-butyl         OCOOMe         3-methoxy-2-naphthyl           S         n-butyl         OCOOMe         6-ethoxy-2-naphthyl           S         n-butyl         OCOOMe         5-methoxy-3-indolyl           S         n-butyl         OCOOMe         5-methoxy-2-naphthyl	S		OCOOMe	<del></del>
S         n-butyl         OCOOMe         5-chloro-2-thienyl           S         n-butyl         OCOOMe         4-methyl-1-naphthyl           S         n-butyl         OCOOMe         1-methyl-2-pyrrolyl           S         n-butyl         OCOOMe         2-methyl-3-furyl           S         n-butyl         OCOOMe         5-methyl-2-thienyl           S         n-butyl         OCOOMe         4-methyl-5-imidazolyl           S         n-butyl         OCOOMe         1-methyl-3-indolyl           S         n-butyl         OCOOMe         2-methoxy-1-naphthyl           S         n-butyl         OCOOMe         3-methoxy-2-naphthyl           S         n-butyl         OCOOMe         5-methoxy-3-indolyl           S         n-butyl         OCOOMe         1.4-dimethoxy-2-naphthyl           S         n-butyl         OCOOMe         5.6-dimethoxy-2-indolyl	S	n-butyl	OCOOMe	
S         n-butyl         OCOOMe         5-chloro-2-thienyl           S         n-butyl         OCOOMe         4-methyl-1-naphthyl           S         n-butyl         OCOOMe         1-methyl-2-pyrrolyl           S         n-butyl         OCOOMe         2-methyl-3-furyl           S         n-butyl         OCOOMe         5-methyl-2-thienyl           S         n-butyl         OCOOMe         4-methyl-5-imidazolyl           S         n-butyl         OCOOMe         1-methyl-3-indolyl           S         n-butyl         OCOOMe         2-methoxy-1-naphthyl           S         n-butyl         OCOOMe         3-methoxy-2-naphthyl           S         n-butyl         OCOOMe         5-methoxy-3-indolyl           S         n-butyl         OCOOMe         1.4-dimethoxy-2-naphthyl           S         n-butyl         OCOOMe         5.6-dimethoxy-2-indolyl	S	n-butyl	OCOOMe	4-fluoro-1-naphthyl
S         n-butyl         OCOOMe         4-methyl-1-naphthyl           S         n-butyl         OCOOMe         1-methyl-2-pyrrolyl           S         n-butyl         OCOOMe         2-methyl-3-furyl           S         n-butyl         OCOOMe         5-methyl-2-thienyl           S         n-butyl         OCOOMe         4-methyl-5-imidazolyl           S         n-butyl         OCOOMe         1-methyl-3-indolyl           S         n-butyl         OCOOMe         2-methoxy-1-naphthyl           S         n-butyl         OCOOMe         3-methoxy-2-naphthyl           S         n-butyl         OCOOMe         6-ethoxy-2-naphthyl           S         n-butyl         OCOOMe         5-methoxy-3-indolyl           S         n-butyl         OCOOMe         1,4-dimethoxy-2-naphthyl           S         n-butyl         OCOOMe         5,6-dimethoxy-2-indolyl	S	n-butyl	<del></del>	
S         n-butyl         OCOOMe         1-methyl-2-pyrrolyl           S         n-butyl         OCOOMe         2-methyl-3-furyl           S         n-butyl         OCOOMe         5-methyl-2-thienyl           S         n-butyl         OCOOMe         4-methyl-5-imidazolyl           S         n-butyl         OCOOMe         1-methyl-3-indolyl           S         n-butyl         OCOOMe         2-methoxy-1-naphthyl           S         n-butyl         OCOOMe         3-methoxy-2-naphthyl           S         n-butyl         OCOOMe         6-ethoxy-2-naphthyl           S         n-butyl         OCOOMe         5-methoxy-3-indolyl           S         n-butyl         OCOOMe         1,4-dimethoxy-2-naphthyl           S         n-butyl         OCOOMe         5,6-dimethoxy-2-indolyl				<u> </u>
S         n-butyl         OCOOMe         2-methyl-3-furyl           S         n-butyl         OCOOMe         5-methyl-2-thienyl           S         n-butyl         OCOOMe         4-methyl-5-inidazolyl           S         n-butyl         OCOOMe         1-methyl-3-indolyl           S         n-butyl         OCOOMe         2-methoxy-1-naphthyl           S         n-butyl         OCOOMe         3-methoxy-2-naphthyl           S         n-butyl         OCOOMe         6-ethoxy-2-naphthyl           S         n-butyl         OCOOMe         5-methoxy-3-indolyl           S         n-butyl         OCOOMe         1,4-dimethoxy-2-naphthyl           S         n-butyl         OCOOMe         5,6-dimethoxy-2-indolyl	S	· · · · · · · · · · · · · · · · · · ·		
S         n-butyl         OCOOMe         5-methyl-2-thienyl           S         n-butyl         OCOOMe         4-methyl-5-imidazolyl           S         n-butyl         OCOOMe         1-methyl-3-indolyl           S         n-butyl         OCOOMe         2-methoxy-1-naphthyl           S         n-butyl         OCOOMe         3-methoxy-2-naphthyl           S         n-butyl         OCOOMe         5-methoxy-3-indolyl           S         n-butyl         OCOOMe         1,4-dimethoxy-2-naphthyl           S         n-butyl         OCOOMe         5,6-dimethoxy-2-indolyl				· · · · · · · · · · · · · · · · · · ·
S         n-butyl         OCOOMe         4-methyl-5-imidazolyl           S         n-butyl         OCOOMe         1-methyl-3-indolyl           S         n-butyl         OCOOMe         2-methoxy-1-naphthyl           S         n-butyl         OCOOMe         3-methoxy-2-naphthyl           S         n-butyl         OCOOMe         6-ethoxy-2-naphthyl           S         n-butyl         OCOOMe         5-methoxy-3-indolyl           S         n-butyl         OCOOMe         1,4-dimethoxy-2-naphthyl           S         n-butyl         OCOOMe         5,6-dimethoxy-2-indolyl		· · · · · · · · · · · · · · · · · · ·		
S         n-butyl         OCOOMe         1-methyl-3-indolyl           S         n-butyl         OCOOMe         2-methoxy-1-naphthyl           S         n-butyl         OCOOMe         3-methoxy-2-naphthyl           S         n-butyl         OCOOMe         6-ethoxy-2-naphthyl           S         n-butyl         OCOOMe         5-methoxy-3-indolyl           S         n-butyl         OCOOMe         1.4-dimethoxy-2-naphthyl           S         n-butyl         OCOOMe         5.6-dimethoxy-2-indolyl			····	
S         n-butyl         OCOOMe         2-methoxy-1-naphthyl           S         n-butyl         OCOOMe         3-methoxy-2-naphthyl           S         n-butyl         OCOOMe         6-ethoxy-2-naphthyl           S         n-butyl         OCOOMe         5-methoxy-3-indolyl           S         n-butyl         OCOOMe         1.4-dimethoxy-2-naphthyl           S         n-butyl         OCOOMe         5.6-dimethoxy-2-indolyl				
S         n-butyl         OCOOMe         3-methoxy-2-naphthyl           S         n-butyl         OCOOMe         6-ethoxy-2-naphthyl           S         n-butyl         OCOOMe         5-methoxy-3-indolyl           S         n-butyl         OCOOMe         1,4-dimethoxy-2-naphthyl           S         n-butyl         OCOOMe         5,6-dimethoxy-2-indolyl				
S         n-butyl         OCOOMe         6-ethoxy-2-naphthyl           S         n-butyl         OCOOMe         5-methoxy-3-indolyl           S         n-butyl         OCOOMe         1,4-dimethoxy-2-naphthyl           S         n-butyl         OCOOMe         5,6-dimethoxy-2-indolyl				
S         n-butyl         OCOOMe         5-methoxy-3-indolyl           S         n-butyl         OCOOMe         1,4-dimethoxy-2-naphthyl           S         n-butyl         OCOOMe         5,6-dimethoxy-2-indolyl				
S         n-butyl         OCOOMe         1,4-dimethoxy-2-naphthyl           S         n-butyl         OCOOMe         5,6-dimethoxy-2-indolyl		<del></del>		
S n-butyl OCOOMe 5,6-dimethoxy-2-indolyl				<u> </u>
S   n-butyl   OCOOMe   5-methoxy-1-methyl-2-indolyl	S	n-butyl	OCOOMe	5-methoxy-1-methyl-2-indolyl

X	R <sup>1</sup>	R <sup>2</sup>	Y
S	n-butyl	OCOOEt	1-naphthyl
S	n-butyl	OCOOEt	2-naphthyl
S	n-butyl	OCOOEt	2-pyrrolyl
S	n-butyl	OCOOEt	3-pyrrolyl
S	n-butyl	OCOOEt.	2-furyl
S	n-butyl	OCOOEt	3-furyl
S	n-butyl	OCOOEt	2-thienyl
S	n-butyl	OCOOEt	3-thienyl
S	n-butyl	OCOOEt	3-pyrazolyl
S	n-butyl	OCOOEt	4-pyrazolyl
S	n-butyl	OCOOEt	2-imidazolyl
S	n-butyl	OCOOEt	4-imidazolyl
S	n-butyl	OCOOEt	2-oxazolyl
S	n-butyl	OCOOEt	4-oxazolyl
S	n-butyl	OCOOEt	5-oxazolyl
S	n-butyl	OCOOEt	2-thiazolyl
S	n-butyl	OCOOEt	4-thiazolyl
S	n-butyl	OCOOEt	5-thiazolyl
S	n-butyl	OCOOEt	2-pyrimidinyl
S	n-butyl	OCOOE1	4-pyrimidinyl
S	n-butyl	OCOOEt	5-pyrimidinyl
S	n-butyl	OCOOEt	2-indolyl
S	n-butyl	OCOOEt	3-indolyl
S	n-butyl	OCOOEt	5-indolyl
S	n-butyl	OCOOEt	6-indolyl
S	n-butyl	OCOOEt	5-benzimidazolyl
S	n-butyl	OCOOEt	2-benzofuryl
S	n-butyl	OCOOEt	3-indazolyl
S	n-butyl	OCOOEt	2-benzoxazolyl
S	n-butyl	OCOOEt	4-fluoro-1-naphthyl
S	n-butyl	OCOOEt	5-chloro-2-thienyl
S	n-butyl	OCOOEt	4-methyl-1-naphthyl
S	n-butyl	OCOOEt	1-methyl-2-pyrrolyl
S	n-butyl	OCOOEt	2-methyl-3-furyl
S	n-butyl	OCOOE	5-methyl-2-thienyl
S	n-butyl	OCOOE1	4-methyl-5-imidazolyl
S	n-butyl	OCOOEt	1-methyl-3-indolyl
S	n-butyl	OCOOEt	2-methoxy-1-naphthyl
S	n-butyl	OCOOEt	3-methoxy-2-naphthyl
S	n-butyl	OCOOEt	6-ethoxy-2-naphthyl
S	n-butyl	OCOOEt	5-methoxy-3-indolyl
S	n-butyl	OCOOEt	1,4-dimethoxy-2-naphthyl
S	n-butyl	OCOOEt	5,6-dimethoxy-2-indolyl
S	n-butyl	OCOOE1	5-methoxy-1-methyl-2-indolyl
רי	n omyr	CCCCE	5 menoxy-1-momyr-2-mooryr

X	R <sup>1</sup>	R <sup>2</sup>	Y
S	n-pentyl	OH	1-naphthyl
S	n-pentyl	OH	2-naphthyl
S	n-pentyl	OH	2-pyrrolyl
S	n-pentyl	OH	3-pyrrolyi
S	n-pentyl	OH	2-furyl
S	n-pentyl	OH	3-furyl
S	n-pentyl	OH	2-thienyl
S	n-pentyl	OH	3-thienyl
S	n-pentyl	OH	3-pyrazolyl
S	n-pentyl	OH	4-pyrazolyl
S	n-pentyl	OH	2-imidazolyl
S	n-pentyl	OH	4-imidazolyl
S	n-pentyl	OH	2-oxazolyl
S	n-pentyl	OH	4-oxazolyl
S	n-pentyl	OH	5-oxazolyl
S	n-pentyl	OH	2-thìazolyl
S	n-pentyl	OH	4-thiazolyl
S	n-pentyl	OH	5-thiazolyl
S	n-pentyl	OH	2-pyrimidinyl
S	n-pentyl	OH	4-pyrimidinyl
S	n-pentyl	OH	5-pyrimidinyl
S	n-pentyl	OH	2-indolyl
S	n-pentyl	OH	3-indolyl
S	n-pentyl	OH	5-indolyl
S	n-pentyl	OH	6-indolyl
S	n-pentyl	OH	5-benzimidazolyl
S	n-pentyl	OH	2-benzofuryl
S	n-pentyl	OH	3-indazolyl
S	n-pentyl	OH	2-benzoxazolyl
S	n-pentyl	ОН	4-fluoro-1-naphthyl
S	n-pentyl	OH	5-chloro-2-thienyl
S	n-pentyl	OH	4-methyl-1-naphthyl
S	n-pentyl	ОН	1-methyl-2-pyrrolyl
S	n-pentyl	OH	2-methyl-3-furyl
S	n-pentyl	ОН	5-methyl-2-thienyl
S	n-pentyl	OH	4-methyl-5-imidazolyl
S	n-pentyl	ОН	1-methyl-3-indolyl
S	n-pentyl	ОН	2-methoxy-1-naphthyl
S	n-pentyl	OH	3-methoxy-2-naphthyl
S	n-pentyl	ОН	6-ethoxy-2-naphthyl
S	n-pentyl	ОН	5-methoxy-3-indolyl
S	n-pentyl	ОН	1,4-dimethoxy-2-naphthyl
S	n-pentyl	ОН	5,6-dimethoxy-2-indolyl
S	n-pentyl	OH	5-methoxy-1-methyl-2-indolyl

Х	R <sup>1</sup>	R <sup>2</sup>	Y
S	n-pentyl	OCOOMe	1-naphthyl
S	n-pentyl	OCOOMe	2-naphthyl
S	n-pentyl	OCOOMe	2-pyrrolyl
S	n-pentyl	OCOOMe	3-pyrrolyl
S	n-pentyl	OCOOMe	2-furyl
S	n-pentyl	OCOOMe	3-furyl
S	n-pentyl	OCOOMe	2-thienyl
S	n-pentyl	OCOOMe	3-thienyl
S	n-pentyl	OCOOMe	3-pyrazolyl
S	n-pentyl	OCOOMe	4-pyrazolyl
S	n-pentyl	OCOOMe	2-imidazolyl
S	n-pentyl	OCOOMe	4-imidazolyl
S	n-pentyl	OCOOMe	2-oxazolyl
S	n-pentyl	OCOOMe	4-oxazolyl
S	n-pentyl	OCOOMe	5-oxazolyl
S	n-pentyl	OCOOMe	2-thiazolyl
S	n-pentyl	OCOOMe	4-thiazolyl
S	n-pentyl	OCOOMe	5-thiazolyl
S	n-pentyl	OCOOMe	2-pyrimidinyl
S	n-pentyl	OCOOMe	4-pyrimidinyl
S	n-pentyl	OCOOMe	5-pyrimidinyl
S	n-pentyl	OCOOMe	2-indolyl
S	n-pentyl	OCOOMe	3-indolyl
S	n-pentyl	OCOOMe	5-indolyl
S	n-pentyl	OCOOMe	6-indolyl
S	n-pentyl	OCOOMe	5-benzimidazolyl
S	n-pentyl	OCOOMe	2-benzofuryl
S	n-pentyl	OCOOMe	3-indazolyl
S	n-pentyl	OCOOMe	2-benzoxazolyl
S	n-pentyl	OCOOMe	4-fluoro-1-naphthyl
S	n-pentyl	OCOOMe	5-chloro-2-thienyl
S	n-pentyl	OCOOMe	4-methyl-1-naphthyl
S	n-pentyl	OCOOMe	1-methyl-2-pyrrolyl
S	n-pentyl	OCOOMe	2-methyl-3-furyl
S	n-pentyl	OCOOMe	5-methyl-2-thi enyl
S	n-pentyl	OCOOMe	4-methyl-5-imidazolyl
S	n-pentyl	OCOOMe	1-methyl-3-indolyl
S	n-pentyl	OCOOMe	2-methoxy-1-naphthyl
S	n-pentyl	OCOOMe	3-methoxy-2-naphthyl
S	n-pentyl	OCOOMe	6-ethoxy-2-naphthyl
S	n-pentyl	OCOOMe	5-methoxy-3-indolyl
ន	n-pentyl	OCOOMe	1.4-dimethoxy-2-naphthyl
S	n-pentyl	OCOOMe	5,6-dimethoxy-2-indolyl
S	n-pentyl	OCOOMe	5-methoxy-1-methyl-2-indolyl

X	R <sup>1</sup>	R <sup>2</sup>	Y
S	n-pentyl	OCOOEt	1-naplithyl
S	n-pentyl	OCOOEt	2-naphthyl
S	n-pentyl	OCOOEt	2-pyrrolyl
S	n-pentyl	OCOOEt	3-pyrrolyl
S	n-pentyl	OCOOEt	2-furyl
S	n-pentyl	OCOOEt	3-furyl
S	n-pentyl	OCOOEt	2-thienyl
S	n-pentyl	OCOOEt	3-thienyl
S	n-pentyl	OCOOEt	3-pyrazolyl
S	n-pentyl	OCOOEt	4-pyrazolyl
S	n-pentyl	OCOOEt	2-imidazolyl
S	n-pentyl	OCOOEt	4-imidazolyl
S	n-pentyl	OCOOEt	2-oxazolyl
S	n-pentyl	OCOOEt	4-oxazolyl
S	n-pentyl	OCOOEt	5-oxazolyl
S	n-pentyl	OCOOEt.	2-thiazolyl
S	n-pentyl	OCOOEt.	4-thiazolyl
S	n-pentyl	OCOOEt	5-thiazolyl
S	n-pentyl	OCOOEt	2-pyrimidinyl
S	n-pentyl	OCOOEt	4-pyrimidinyl
S	n-pentyl	OCOOEt	5-pyrimidinyl
S	n-pentyl	OCOOEt	2-indolyl
S	n-pentyl	OCOOEt	3-indolyl
S	n-pentyl	OCOOEt	5-indolyl
S	n-pentyl	OCOOEt	6-indolyl
S	n-pentyl	OCOOEt	5-benzimidazolył
S	n-pentyl	OCOOEt	2-benzofuryl
S	n-pentyl	OCOOEt	3-indazolyl
S	n-pentyl	OCOOEt	2-benzoxazolyl
S	n-pentyl	OCOOEt.	4-fluoro-1-naphthyl
S	n-pentyl	OCOOEt	5-chloro-2-thienyl
S	n-pentyl	OCOOEt	4-methyl-1-naphthyl
S	n-pentyl	OCOOEt	1-methyl-2-pyrrolyl
S	n-pentyl	OCOOEt	2-methyl-3-furyl
S	n-pentyl	OCOOEt	5-methyl-2-thienyl
· S	n-pentyl	OCOOEt	4-methyl-5-imidazolyl
S	n-pentyl	OCOOEt	1-methyl-3-indolyl
S	n-pentyl	OCOOEt	2-methoxy-1-naphthyl
S	n-pentyl	OCOOEt	3-methoxy-2-naphthyl
S	n-pentyl	OCOOEt	6-ethoxy-2-naphthyl
S	n-pentyl	OCOOEt	5-methoxy-3-indolyl
S	n-pentyl	OCOOEt	1,4-dimethoxy-2-naphthyl
S	n-pentyl	OCOOEt	5,6-dimethoxy-2-indolyl
S	n-pentyl	OCOOEt	5-methoxy-1-methyl-2-indolyl
	L\).	COCOLI	1 - Modicity 1 Menty1-2-Induly1

X	R <sup>1</sup>	R <sup>2</sup>	Y
NH	2-methoxyethyl	OH	1-naphthyl
NH	2-methoxyethyl	OH	2-naphthyl
NH	2-methoxyethyl	OH	2-pyirolyl
NH	2-methoxyethyl	OH	3-pyrrolyl
NH	2-methoxyethyl	OH	2-furyl
NH	2-methoxyethyl	OH	3-furyl
NH	2-methoxyethyl	OH	2-thienyl
NH	2-methoxyethyl	OH	3-thienyl
NH	2-methoxyethyl	OH	3-pyrazolyl
NH	2-methoxyethyl	OH	4-pyrazolyl
NH	2-methoxyethyl	OH	2-imidazolyl
NH	2-methoxyethyl	OH	4-imidazolyl
NH	2-methoxyethyl	OH	2-oxazolyl
NH	2-methoxyethyl	OH	4-oxazolyl
NH	2-methoxyethyl	OH	5-oxazolyl
NH	2-methoxyethyl	OH	2-thiazolyl
NH	2-methoxyethyl	OH	4-thiazolyl
NH	2-methoxyethyl	OH	5-thiazolyl
NH	2-methoxyethyl	OH	2-pyrimidinyl
NH	2-methoxyethyl	OH	4-pyrimidinyl
NH	2-methoxyethyl	OH	5-pyrimidinyl
NH	2-methoxyethyl	OH	2-indolyl
NH	2-methoxyethyl	OH	3-indolyl
NH	2-methoxyethyl	OH	5-indolyl
NH	2-methoxyethyl	OH	6-indolyl
NH	2-methoxyethyl	OH	5-benzimidazolyl
NH	2-methoxyethyl	OH	2-benzofuryl
NH	2-methoxyethyl	ОН	3-indazolyl
NH	2-methoxyethyl	OH	2-benzoxazolyl
NH	2-methoxyethyl	ОН	4-fluoro-1-naphthyl
NH	2-methoxyethyl	ОН	5-chloro-2-thienyl
NH	2-methoxyethyl	OH	4-methyl-1-naphthyl
NH	2-methoxyethyl	ОН	1-methyl-2-pyrrolyl
NH	2-methoxyethyl	OH	2-methyl-3-furyl
NH	2-methoxyethyl	ОН	5-methyl-2-thienyl
NH	2-methoxyethyl	ОН	4-methyl-5-imidazolyl
NH	2-methoxyethyl	ОН	1-methyl-3-indolyl
NH	2-methoxyethyl	ОН	2-methoxy-1-naphthyl
NH	2-methoxyethyl	ОН	3-methoxy-2-naphthyl
NH	2-methoxyethyl	OH	6-ethoxy-2-naphthyl
NH	2-methoxyethyl	ОН	5-methoxy-3-indolyl
NH	2-methoxyethyl	OH	1,4-dimethoxy-2-naphthyl
ИН	2-methoxyethyl	ОН	5,6-dimethoxy-2-indolyl
NH	2-methoxyethyl	OH	5-methoxy-1-methyl-2-indolyl

Х	R <sup>1</sup>	R <sup>2</sup>	Y
NH	3-methoxypropyl	OH	1-naphthyl
NH	3-methoxypropyl	OH	2-naphthyl
NH	3-methoxypropyl	ОН	2-pyrrolyl
NH	3-methoxypropyl	OH	3-pyrrolyl
NH	3-methoxypropyl	OH	2-furyl
NH	3-methoxypropyl	OH	3-furyl
NH	3-methoxypropyl	OH	2-thienyl
NH	3-methoxypropyl	OH	3-thienyl
NH	3-methoxypropyl	OH	3-pyrazolyl
NH	3-methoxypropyl	OH	4-pyrazolyl
NH	3-methoxypropyl	OH	2-imidazolyl
NH	3-methoxypropyl	ОН	4-imidazolyl
NH	3-methoxypropyl	ОН	2-oxazolyl
NH	3-methoxypropyl	OH	4-oxazolyl
NH	3-methoxypropyl	OH	5-oxazolyl
NH	3-methoxypropyl	ОН	2-thiazolyl
ИН	3-methoxypropyl	OH	4-thiazolyl
NH	3-methoxypropyl	OH	5-thiazolyl
NH	3-methoxypropyl	OH	2-pyrimidinyl
NH	3-methoxypropyl	OH	4-pyrimidinyl
NH	3-methoxypropyl	ОН	5-pyrimidinyl
NH	3-methoxypropyl	OH	2-indolyl
NH	3-methoxypropyl	OH	3-indolyl
NH	3-methoxypropyl	OH	5-indolyl
NH	3-methoxypropyl	OH	6-indolyl
NH	3-methoxypropyl	OH	5-benzimidazolyl
NH	3-methoxypropyl	OH	2-benzofuryl
NH	3-methoxypropyl	OH	3-indazolyl
NH	3-methoxypropyl	OH	2-benzoxazolyl
NH	3-methoxypropyl	ОН	4-fluoro-1-naphthyl
NH	3-methoxypropyl	ОН	5-chloro-2-thienyl
NH	3-methoxypropyl	OH	4-methyl-1-naphthyl
NH	3-methoxypropyl	OH	1-methyl-2-pyrrolyl
NH	3-methoxypropyl	OH	2-methyl-3-furyl
NH	3-methoxypropyl	OH	5-methyl-2-thienyl
NH	3-methoxypropyl	OH	4-methyl-5-imidazolyl
ИН	3-methoxypropyl	OH	1-methyl-3-indolyl
NH	3-methoxypropyl	OH	2-methoxy-1-naphthyl
NH	3-methoxypropyl	OH	3-methoxy-2-naphthyl
NH	3-methoxypropyl	OH	6-ethoxy-2-naphthyl
NH	3-methoxypropyl	OH	5-methoxy-3-indolyl
NH	3-methoxypropyl	OH	1,4-dimethoxy-2-naphthyl
NH	3-methoxypropyl	ОН	5,6-dimethoxy-2-indolyl
ИН	3-methoxypropyl	OH	5-methoxy-1-methyl-2-indolyl

X	R1	R <sup>2</sup>	Y
0	2-methoxyethyl	OH	1-naphthyl
0	2-methoxyethyl	OH	2-naphthyl
0	2-methoxyethyl	OH	2-pyırolyl
0	2-methoxyethyl	OH	3-pyrrolyl
0	2-methoxyethyl	OH	2-furyl
0	2-methoxyethyl	OH	3-furyl
0	2-methoxyethyl	OH	2-thienyl
0	2-methoxyethyl	OH	3-thienyl
0	2-methoxyethyl	OH	3-pyrazolyl
0	2-methoxyethyl	OH	4-pyrazolyl
0	2-methoxyethyl	OH	2-imidazolyl
0	2-methoxyethyl	ОН	4-imidazolyl
0	2-methoxyethyl	OH	2-oxazolyl
0	2-methoxyethyl	ОН	4-oxazolyl
0	2-methoxyethyl	OH	5-oxazolyl
О	2-methoxyethyl	OH	2-thiazolyl
0	2-methoxyethyl	OH	4-thiazolyt
0	2-methoxyethyl	OH	5-thiazolyl
0	2-methoxyethyl	ОН	2-pyrimidinyl
0	2-methoxyethyl	OH	4-pyrimidinyl
0	2-methoxyethyl	OH	5-pyrimidinyl
0	2-methoxyethyl	OH	2-indolyl
0	2-methoxyethyl	OH	3-indolyl
0	2-methoxyethyl	OH	5-indolyl
0	2-methoxyethyl	OH	6-indolyl
0	2-methoxyethyl	OH	5-benzimidazolyl
0	2-methoxyethyl	OH	2-benzofuryl
0	2-methoxyethyl	OH	3-indazolyl
0	2-methoxyethyl	OH	2-benzoxazolyi
0	2-methoxyethyl	ОН	4-tluoro-1-naphthyl
0	2-methoxyethyl	ОН	5-chloro-2-thienyl
0	2-methoxyethyl	OH	4-methyl-1-naphthyl
0	2-methoxyethyl	ОН	1-methyl-2-pyrrolyl
0	2-methoxyethyl	ОН	2-methyl-3-furyl
0	2-methoxyethyl	ОН	5-methyl-2-thienyl
0	2-methoxyethyl	ОН	4-methyl-5-imidazolyl
0	2-methoxyethyl	ОН	1-methyl-3-indolyl
0	2-methoxyethyl	OH	2-methoxy-1-naphthyl
0	2-methoxyethyl	ОН	3-methoxy-2-naphthyl
0	2-methoxyethyl	ОН	6-ethoxy-2-naphthyl
0	2-methoxyethyl	ОН	5-methoxy-3-indolyl
0	2-methoxyethyl	ОН	1,4-dimethoxy-2-naphthyl
0	2-methoxyethyl	OH	5,6-dimethoxy-2-indolyl
0	2-methoxyethyl	OH	5-methoxy-1-methyl-2-indolyl
·-·	2 months youry	\_/11	: Medicky-1-menty1-2-mediy1

X	R <sup>1</sup>	R <sup>2</sup>	Y
0	3-methoxypropyl	OH	1-naphthyl
0	3-methoxypropyl	OH	2-naphthyl
0	3-methoxypropyl	OH	2-pyrrolyl
0	3-methoxypropyl	ОН	3-pyirolyl
0	3-methoxypropyl	OH	2-furyl
0	3-methoxypropyl	OH	3-furyl
0	3-methoxypropyl	OH	2-thienyl
0	3-methoxypropyl	OH	3-thienyl
0	3-methoxypropyl	OH	3-pyrazolyl
0	3-methoxypropyl	OH	4-pyrazolyl
0	3-methoxypropyl	OH	2-imidazolyl
0	3-methoxypropyl	ОН	4-imidazolyl
0	3-methoxypropyl	ОН	2-oxazolyl
0	3-methoxypropyl	OH	4-oxazolyl
O	3-methoxypropyl	OH	5-oxazolyl
0	3-methoxypropyl	ОН	2-thiazolyl
0	3-methoxypropyl	OH	4-thiazolyl
0	3-methoxypropyl	OH	5-thiazolyl
0	3-methoxypropyl	OH	2-pyrimidinyl
0	3-methoxypropyl	OH	4-pyrimidinyl
0	3-methoxypropyl	OH	5-pyrimidinyl
0	3-methoxypropyl	OH	2-indolyl
0	3-methoxypropyl	OH	3-indolyl
0	3-methoxypropyl	OH	5-indolyl
0	3-methoxypropyl	OH	6-indolyl
0	3-methoxypropyl	OH	5-benzimidazolyl
0	3-methoxypropyl	OH	2-benzofuryl
0	3-methoxypropyl	OH	3-indazolyl
0	3-methoxypropyl	OH	2-benzoxazolyl
0	3-methoxypropyl	OH	4-fluoro-1-naphthyl
0	3-methoxypropyl	OH	5-chloro-2-thienyl
0	3-methoxypropyl	OH	4-methyl-1-naphthyl
0	3-methoxypropyl	OH	1-methyl-2-pyrrolyl
0	3-methoxypropyl	ОН	2-methyl-3-furyl
0	3-methoxypropyl	ОН	5-methyl-2-thienyl
0	3-methoxypropyl	OH	4-methyl-5-imidazolyl
0	3-methoxypropyl	ОН	1-methyl-3-indolyl
0	3-methoxypropyl	OH	2-methoxy-1-naphthyl
0	3-methoxypropyl	OH	3-methoxy-2-naphthyl
0	3-methoxypropyl	OH	6-ethoxy-2-naphthyl
0	3-methoxypropyl	ОН	5-methoxy-3-indolyl
0	3-methoxypropyl	ОН	1,4-dimethoxy-2-naphthyl
0	3-methoxypropyl	OH	5,6-dimethoxy-2-indolyl
0	3-methoxypropyl	OH	5-methoxy-1-methyl-2-indolyl

Х	R <sup>1</sup>	R <sup>2</sup>	Y
S	2-methoxyethyl	OH	1-naphthyl
S	2-methoxyethyl	ОН	2-naphthyl
S	2-methoxyethyl	OH	2-pyrrolyl
S	2-methoxyethyl	OH	3-pyrrolyl
S	2-methoxyethyl	OH	2-furyl
S	2-methoxyethyl	OH	3-furyl
S	2-methoxyethyl	OH	2-thienyl
S	2-methoxyethyl	OH	3-thienyl
S	2-methoxyethyl	OH	3-pyrazolyl
S	2-methoxyethyl	OH	4-pyrazolyl
S	2-methoxyethyl	OH	2-imidazolyl
S	2-methoxyethyl	OH	4-imidazolyl
S	2-methoxyethyl	ОН	2-oxazolyl
S	2-methoxyethyl	ОН	4-oxazolyl
S	2-methoxyethyl	ОН	5-oxazolyl
S	2-methoxyethyl	OH	2-thiazolyl
S	2-methoxyethyl	ОН	4-thiazolyl
S	2-methoxyethyl	OH	5-thiazolyl
S	2-methoxyethyl	ОН	2-pyrimidinyl
S	2-methoxyethyl	OH	4-pyrimidinyl
S	2-methoxyethyl	ОН	5-pyrimidinyl
S	2-methoxyethyl	ОН	2-indolyl
S	2-methoxyethyl	ОН	3-indolyl
S	2-methoxyethyl	OH	5-indolyl
S	2-methoxyethyl	ОН	6-indolyl
S	2-methoxyethyl	ОН	5-benzimidazolyl
S	2-methoxyethyl	ОН	2-benzofuryl
S	2-methoxyethyl	OH	3-indazolyl
S	2-methoxyethyl	ОН	2-benzoxazolyl
S	2-methoxyethyl	OH	4-fluoro-1-naphthyl
S	2-methoxyethyl	ОН	5-chloro-2-thienyl
S	2-methoxyethyl	ОН	4-methyl-1-naphthyl
S	2-methoxyethyl	ОН	1-methyl-2-pyrrolyl
S	2-methoxyethyl	ОН	2-methyl-3-furyl
S	2-methoxyethyl	ОН	5-methyl-2-thienyl
S	2-methoxyethyl	ОН	4-methyl-5-imidazolyl
S	2-methoxyethyl	ОН	1-methyl-3-indolyl
S	2-methoxyethyl	ОН	2-methoxy-1-naphthyl
S	2-methoxyethyl	ОН	3-methoxy-2-naphthyl
S	2-methoxyethyl	ОН	6-ethoxy-2-naphthyl
S	2-methoxyethyl	OH	5-methoxy-3-indolyl
S	2-methoxyethyl	ОН	1,4-dimethoxy-2-naphthyl
S	2-methoxyethyl	ОН	5,6-dimethoxy-2-indolyl
S	2-methoxyethyl	OH	5-methoxy-1-methyl-2-indolyl
X	R <sup>1</sup>	R <sup>2</sup>	Y

X	R <sup>1</sup>	R <sup>2</sup>	Y
S	2-hydroxyethyl	OH	1-naphthyl
S	2-hydroxyethyl	OH	2-naphthyl
S	2-hydroxyethyl	OH	2-pyrrolyl
S	2-hydroxyethyl	OH	3-pyrrolyl
S	2-hydroxyethyl	OH	2-furyl
S	2-hydroxyethyl	OH	3-furyl
S	2-hydroxyethyl	OH	2-thienyl
S	2-hydroxyethyl	OH	3-thienyl
S	2-hydroxyethyl	OH	3-pyrazolyl
S	2-hydroxyethyl	OH	4-pyrazolyl
S	2-hydroxyethyl	OH	2-imidazolyl
S	2-hydroxyethyl	OH	4-imidazolyl
S	2-hydroxyethyl	OH	2-oxazolyl
S	2-hydroxyethyl	OH	4-oxazolyl
S	2-hydroxyethyl	OH	5-oxazolyl
S	2-hydroxyethyl	ОН	2-thiazolyl
S	2-hydroxyethyl	OH	4-thiazolyl
S	2-hydroxyethyl	OH	5-thiazolyl
S	2-hydroxyethyl	OH	2-pyrimidinyl
S	2-hydroxyethyl	OH	4-pyrimidinyl
S	2-hydroxyethyl	OH	5-pyrimidinyl
S	2-hydroxyethyl	OH	2-indolyl
S	2-hydroxyethyl	OH	3-indolyl
S	2-hydroxyethyl	OH	5-indolyl
S	2-hydroxyethyl	OH	6-indolyl
S	2-hydroxyethyl	OH	5-benzimidazolyl
S	2-hydroxyethyl	OH	2-benzofuryl
S	2-hydroxyethyl	OH	3-indazolyl
S	2-hydroxyethyl	ОН	2-benzoxazolyl
S	2-hydroxyethyl	OH	4-fluoro-1-naphthyl
S	2-hydroxyethyl	ОН	5-chloro-2-thienyl
S	2-hydroxyethyl	ОН	4-methyl-1-naphthyl
S	2-hydroxyethyl	OH	1-methyl-2-pyrrolyl
S	2-hydroxyethyl	OH	2-methyl-3-furyl
S	2-hydroxyethyl	ОН	5-methyl-2-thienyl
S	2-hydroxyethyl	OH	4-methyl-5-imidazolyl
S	2-hydroxyethyl	OH	1-methyl-3-indolyl
S	2-hydroxyethyl	OH	2-methoxy-1-naphthyl
S	2-hydroxyethyl	ОН	3-methoxy-2-naphthyl
S	2-hydroxyethyl	OH	6-ethoxy-2-naphthyl
S	2-hydroxyethyl	OH	5-methoxy-3-indolyl
S	2-hydroxyethyl	OH	1,4-dimethoxy-2-naphthyl
S	2-hydroxyethyl	ОН	5,6-dimethoxy-2-indolyl
S	2-hydroxyethyl	ОН	5-methoxy-1-methyl-2-indolyl

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## [0016]

本発明の化合物において、 $R^2$ がアシルオキシ基又はアルコキシカルボニルオキシ基である化合物は、 $R^2$ が水酸基である化合物のエステルに相当し、 $R^2$ が水酸基である化合物の溶解性、吸収性、体内安定性の向上を目的としたプロドラッグである。即ち、該エステルが生体内で代謝を受け、活性本体である  $R^2$ が水酸基である化合物となる。一般式(I)で示される化合物とその互変異性体は化学的に等価であり、本発明のアデニン誘導体はその互変異性体も含む。例えば、 $R^2$ が水酸基の場合、一般式(I)で示される化合物は一般式(I1):

(式中、R<sup>1</sup>、X、Yは前記式(I)と同義である)のヒドロキシ誘導体となるが、該誘導体の互変異性体として下記一般式 (III):

## 【化4】

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(式中、 $R^{-1}$ 、X、Yは前記式(I)と同義である)のオキソ誘導体がある。 これらのアデニン誘導体の製法の一例を以下に詳述する。

## [0017]

## (1) R<sup>2</sup> = OHの場合

化合物(IV)とY-CH2-Hal(式中、Yは式(II)と同義で、Halはハロゲン原子を表す。)とを塩基存在下に反応させて9-置換体(V)を合成する。前記塩基としては、例えば炭酸カリウム等の炭酸のアルカリ金属塩又はアルカリ土類金属塩、水酸化ナトリウム、水酸化カリウム等の金属水酸化物、水素化ナトリウム等の金属水素化物、t-ブトキシカリウム等のアルコキシド等を用いることができる。前記溶媒としてはジメチルホルムアミド、ジメチルスルホキシド、テトラヒドロフラン、1,4-ジオキサン等の非プロトン性溶媒を用いることができ、反応温度は室温から溶媒の還流温度までの間で行うことができる。

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Xが酸素原子または硫黄原子の場合は、化合物(V)と対応する  $R^-$  - O H または  $R^+$  - S H とを塩基の存在下に反応させて 2 - 置換体(V I )を合成する。塩基としてはナトリウム、カリウム等のアルカリ金属、水素化ナトリウム等のアルカリ金属水素化物等を用いることができ、溶媒としてはジメチルホルムアミド、ジメチルスルホキシド、テトラヒドロフラン、 1 、 4 - ジオキサン、ジグライムなどの非プロトン性溶媒を用いるか、あるいは無溶媒で行うこともできる。反応温度は 5 O  $\mathbb C$  から溶媒の還流温度までの間で行うことができる。

なお、化合物(IV)から化合物(VI)を製造する工程において、最初に2-置換体(V')を合成し、次いで、該2-置換体(V')とY-CH2-Hal(式中、Yは式(

II)と同義で、Halはハロゲン原子を表す。)とを反応させて化合物(VI)を得ることもできる。化合物(VII)は、化合物(VI)と臭素とを反応させて合成することができる。溶媒としては四塩化炭素、ジクロロメタン、クロロホルムなどのハロゲン系溶媒、酢酸などを用いることができる。反応温度は 0 ℃から溶媒の還流温度までの間で行うことができる。また、反応においては酢酸ナトリウムなどの反応助剤を加えてもよい。

### [0018]

化合物(IX)は、化合物(VII)を酸性条件下で加水分解することにより合成することができる。酸としては塩酸、臭化水素酸などを用いることができる。反応温度は50℃から溶媒の還流温度までの間で行うことができる。あるいは、化合物(VII)とナトリウムメトキシドとを反応させて化合物(VIII)とした後に、酸処理して脱メチル化することにより(IX)を得ることもできる。

## 【化5】

化合物( X )は、化合物( V I I )に水硫化ナトリウム(硫化水素ナトリウム)を反応させて合成することができる。溶媒はエタノール、プロパノール、ブタノールなどのアルコール系溶媒を用いることができる。反応温度は 5 0 ℃から溶媒の還流温度までの間で行うことができる。

[0019]

【化6】

化合物(XI)は、化合物(IX)を塩基存在下、 $R^2$  に対応するアシルクロリドあるいはクロロギ酸エステルと反応させることにより得ることができる。塩基としてはトリエチルアミン、ジイソプロピルエチルアミン、4-ジメチルアミノピリジンなどの3級アミン類、溶媒としてはテトラヒドロフラン、1, 4-ジオキサン、ジクロロメタンなどの非プロトン性溶媒を用いることができる。反応温度は0  $\mathbb C$  から溶媒の還流温度までの間で行うことができる(式中、 $R^4$  は炭素数  $1\sim 7$  のアルキル基または炭素数  $1\sim 7$  のアルコキシ基を表す。)。

[0020]

## 【化7】

以上のようにして得られる本発明のアデニン誘導体は、ナトリウム塩、カリウム塩、カルシウム塩、塩酸塩、臭化水素酸塩、硫酸塩、硝酸塩、酢酸塩、メタンスルホン酸塩、トルエンスルホン酸塩、クエン酸塩、フマル酸塩、マレイン酸塩などの薬学的に許容される塩としても用いることもできる。

### [0021]

本発明のアデニン誘導体は、B型及びC型肝炎、エイズなどのウイルス疾患、癌疾患及びタイプ2ーヘルパーT細胞を起因とする疾患等の治療薬として有用であり、錠剤、カプセル剤、散剤などの経口剤をはじめ、注射剤、外用剤など種々の剤形で使用することができる。本発明の医薬としては、一般式(I)で表される化合物、その互変異性体、及びそれらの薬学的に許容される塩からなる群から選ばれる物質を用いることができ、さらにそれらの水和物、または溶媒和物を用いてもよい。これらの物質の2以上を適宜組み合わせてりいてもよい。これらの群から選ばれる物質自体を本発明の医薬として投与してもよいが通常は、有効成分である上記物質と薬学的に許容される製剤用添加物とを含む医薬組成物の形態で投与することが望ましい。

# [0022]

生体内に適用するための医薬組成物は、有効成分である上記物質を薬学的に許容される製剤用添加物の1種または2種以上と混合し、薬学の分野において汎用の製剤方法に従って容易に製造することができる。本発明の医薬の投与経路は特に限定されないが、治療にどができる。本発明の医薬の投与経路は特に限定されないが、治療にび一または予防に際して最も効果的な経路を適宜選択することが望ましい。経口投与に適する医薬組成物としては、例えば、カプセル剤、散剤、顕粒剤、細粒剤、シロップ剤、液剤、懸濁剤などを挙げることができ、非経口的に適する医薬組成物としては、例えば、吸入剤、噴霧剤、直腸内投与剤、注射剤、点滴剤、軟膏、クリーム剤、経皮吸収剤、紅腸吸収剤、点眼剤、点鼻剤、点耳剤、テープ剤、貼付剤などを挙げることができるが、本発明の医薬の形態はこれらに限定されることはない。

### [0023]

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経口投与に適当な医薬組成物のうち、例えば乳剤およびシロップ剤などの液体製剤は、水;ショ糖、ソルビット、果糖等の糖類;ポリエチレングリコール、プロピレングリコール等のグリコール類;ごま油、オリーブ油、大豆油等の油類;pーヒドロキシ安息香酸エステル類等の防腐剤;ストロベリーフレーバー、ペパーミント等のフレーバー類などの製剤用添加物を用いて製造することができる。カプセル剤、錠剤、散剤、および顆粒剤などの固形製剤は、乳糖、ブトウ糖、ショ糖、マンニット等の賦形剤;デンプン、アルギン酸ソーダ等の崩壊剤;ステアリン酸マグネシウム、タルク等の滑沢剤;ポリビニルアルコール、ヒドロキシプロピルセルロース、ゼラチン等の結合剤;脂肪酸エステル等の界面活性剤;グリセリン等の可塑剤等を用いて製造することができる。

非経口投与に適する医薬組成物のうち、注射剤、点滴剤、点眼剤などの形態の液体製剤は、好ましくは滅菌された等張の液体製剤として調製することができる。例えば、注射剤は、塩溶液、ブドウ糖溶液、または塩水とブドウ糖溶液との混合物からなる水性媒体を用いて調製することができる。直腸内投与剤は、例えばカカオ脂、水素化脂肪、または水水、噴霧剤の調製には、有効成分である上記の物質を微細な粒子としてができる。にまる。またできる。このような担体として、乳糖の形態としてはエアロゾルやドライパウダー等の形態とリン等を挙げることができ、製剤の形態としてはエアロゾルやドライパウダー等の形態とリン等を挙げることができ、製剤の形態としてはエアロゾルやに製造においても、型別で例示した希釈剤、蓄剤、賦形剤、崩壊剤、精合剤、界面活性剤、耐変剤等から選択される1種または2種以上の製剤用添加物を適宜用いることによる、当業者に利用可能なものであればいかなるものを用いてもよい。

本発明のアデニン誘導体の用量は、患者の性別、年齢、体重、疾患の種類、症状などに応じて適宜定めるものであるが、一般に、1日当たり0. 001 ~100 mg/kgの範囲で、好ましくは0. 01~10 mg/kgの範囲で、単回又は数回に分けて投与することができる。

[0024]

【実施例】

参考例1: 2-ブトキシアデニン

ブタノール(480 m L)にナトリウム(13.6 g, 0.59 mol)を加え、90℃まで昇温して完溶させた。続いて2ークロロアデニン(4.0 g, 23.6 m m o l)を加え、9時間加熱還流した。4℃まで冷却した後、反応液に水(400 m L)を加え30分間、強く撹拌した。分層したブタノール層を減圧濃縮した後、残渣に水(400 m L)を加え、氷冷下濃塩酸を滴下して中和した。析出した固体を濾取し、得られた固体をエタノール(70 m L)に加え、30分間加熱還流した。室温まで冷却した後、析出した固体を濾取しすることで標記化合物を3.72 g得た(収率: 76%)。

<u>参考例2: 8-ブロモー2-ブトキシー9-(6-クロロー3-ピリジルメチル)アデ</u>ニン

参考例 1 で得られた 2- ブトキシアデニン(2. 6 0 g, 1 2 . 5 mmol)の D M F 溶液(1 2 5 m L)に、炭酸カリウム(2. 8 5 g, 2 0 . 6 mmol)を 2- クロロー5 2- クロロメチルピリジン (3 . 3 3 g, 2 0 . 6 mmol)を加え、2 8 0 2 7 . 2 5 時間加熱撹拌した。反応液を減圧濃縮した後、水(1 0 0 m L)を加え 1 N 塩酸で中和し、析出した固体を遮取した。この固体を塩化メチレン(1 0 0 m L)に溶解させた後、氷冷下へキサン(1 5 0 m L)を加え、析出した結晶を濾取することにより 2- ブトキシー 9- (6- クロロー3- ピリジルメチル)アデニンを得た(収量: 3 . 1 2 g)。酢酸ナトリウム(3 . 0 5 g, 3 7 . 2 mmol)と 2- ブトキシー9- (6- クロロー3- ピリジルメチル)アデニン(3 . 1 g, 9 . 3 1 mmol)を加えた酢酸懸濁液(1 8 6 m L)に、室温で臭素(1 . 9 2 m L, 3 7 . 5 mmol)を加え、4時間反応させた。反応液を減圧留去した後、残渣に水(

200 m L)を加え、氷冷下 5 N 水酸化ナトリウムで中和した。析出した結晶を濾取した後、粗結晶をメタノールにて再結晶した。 40℃で 15時間減圧乾燥して、白色粉末結晶として標記化合物を 2.38 g 得た(収率: 62%)。

<u>参考例3: 2-ブトキシ-9-(6-クロロ-3-ピリジルメチル)-8-メトキシア</u> デニン

メタノール(1 1 0 m L)にナトリウム(6 1 4 m g , 2 6 . 7 m m o 1)を加え完溶させた。この溶液に参考例 2 で得られた 8 - ブロモー2 - ブトキシー9 - (6 - クロロー3 - ピリジルメチル)アデニン(2 . 2 g , 5 . 3 4 m m o 1)を加え、3 . 5 時間加熱還流した。反応液を減圧濃縮し、残渣に水(1 0 0 m L)を加え氷冷下、濃塩酸で中和した。析出した固体を濾取、水洗した(2 0 m L)。この固体を酢酸エチル(3 0 m L)で再結晶させることにより白色粉末結晶として標記化合物を1 . 2 6 g 得た(収率: 6 5 . 0 %)。

<u>参考例 5 : 2 - ブチルアミノアデニン</u>

オートクレーブ(200 mL)に2ークロロアデニン(6.0 g, 35.4 mm o l)とブチルアミン(30 mL)を加え、130  $\mathbb C$  で 150 時間反応させた。反応液を減圧濃縮した後、残渣に水を注入し固体を析出させた。析出固体を塩化メチレン、メタノールで順次洗浄して、黄橙色粉末固体として標記化合物を 2.08 g 得た(収率:30%)。

<u>実施例 1 : 2 - ブトキシー 9 - (6 - クロロー 3 - ピリジルメチル) - 8 - ヒドロキシアデニン</u>

濃塩酸(70 mL)に参考例 3 で得られた化合物(1. 26 g, 3. 47 mmol)を加え、室温で 2 時間反応させた。反応液を減圧濃縮した後、残渣に水(130 mL)を加え氷冷下、5N 水酸化ナトリウム水溶液で中和した。析出した結晶を濾取・乾燥することにより白色粉末結晶として標記化合物を1. 20 g得た(収率: 99%)

 $^{1}$  H NMR (DMSO-d<sub>6</sub>)  $\delta$ 10.14 (1H, brs), 8.40 (1H, d, J = 2.4 Hz), 7.76 (1H, dd, J = 2.4 Hz), 7.76 (1H, dd, J = 2.4 Hz), 6.8.4 Hz), 7.49 (1H, d, J = 8.4 Hz), 6.55 (2H, brs), 4.91 (2H, s), 4.14 (2H, t, J = 6.5 Hz), 1.67-1.57 (2H, m), 1.44-1.30 (2H, m), 0.90 (3H, t, J = 7.3 Hz). 実施例2: 2-ブトキシ-8-ヒドロキシ-9-(6-メトキシ-3-ピリジルメチル)アデニン

対応する出発物質を用いて実施例1と同様にして標記化合物を得た。

<u>実施例3: 2-ブトキシ-9-(6-エトキシ-3-ピリジルメチル)-8-ヒドロキ</u>シアデニン

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対応する出発物質を用いて実施例1と同様にして標記化合物を得た。
^{1} H NMR (DMSO-d _{6}) \delta 10.06 (1H, brs), 8.14 (
1 H, d, J = 2.4 Hz), 7.64 (1 H, dd, J = 2.
  8.6 Hz), 6.75 (1H, d, J = 8.6 Hz), 6.
48 (2H, brs), 4.80 (2H,s), 4.26 (2H,q,
J = 7.2 Hz), 4.15 (2H, t, J = 6.6 Hz), 1
. 68-1. 58 (2H, m), 1. 42-1. 34 (2H, m), 1. 2
8 (3 H, t, J = 7.2 Hz), 0.91 (3 H, t, J =
7.3 Hz).
実施例 4 : 2 - ブトキシー 9 - (6 - n - ブトキシー 3 - ピリジルメチル) - 8 - ヒド
ロキシアデニン
対応する出発物質を用いて実施例1と同様にして標記化合物を得た。
^{1} H NMR (DMSO-d<sub>6</sub>) \delta10.25 (1H, brs), 8.13 (
1 \, H, d, J = 1.9 \, Hz), 7.63 \, (1 \, H, dd, J = 1.
9, 8.4 Hz), 6.75 (1H, d, J = 8.4 Hz),
53 (2H, brs), 4.79 (2H,s), 4.23-4.12 (4H
, m), 1.68-1.60 (4H, m), 1.42-1.34 (4H.
m), 0.94-0.88 (6H, m).
実施例5: 2-ブトキシー9-(2-クロロー3-ピリジルメチル)-8-ヒドロキシ
アデニン
                                                20
対応する出発物質を用いて実施例1と同様にして標記化合物を得た。
^{1} H NMR (DMSO-d<sub>6</sub>) \delta10.15 (1H, brs), 8.36-8
. 33 (1 H, m), 7. 52-7. 50 (1 H, m), 7. 41-7. 36
 (1H, m), 6.53 (2H, brs), 4.94 (2H, s).
4.07 (2 H, t, J = 6.6 Hz), 1.62-1.52 (2 H,
     1. 37-1. 23 (2 H, m), 0. 87 (3 H, t, J =
 m),
 7.3 Hz).
実施例6: 2-ブトキシー8-ヒドロキシー9-(2-メトキシー3-ピリジルメチル
)アデニン
対応する出発物質を用いて実施例1と同様にして標記化合物を得た。
                                                30
^{1} H NMR (DMSO-d _{6}) \delta 10.06 (1H, brs), 8.08-8
. 06 (1 H, m), 7. 21-7. 19 (1 H, m), 6. 93-6. 88
 (1H, m), 6.47 (2H, brs), 4.80 (2H, s),
4.08 (2 H, t, J = 6.5 Hz), 3.92 (3 H, s),
1. 60-1. 53 (2 H, m), 1. 38-1. 29 (2 H, m), 0.
87 (3H, t, J =
7.3 Hz).
実施例7: 2-ブトキシー9-(6-クロロー5-メトキシー3-ピリジルメチル)-
8-ヒドロキシアデニン
対応する出発物質を用いて実施例1と同様にして標記化合物を得た。
                                                40
^{1} H NMR (DMSO-d<sub>6</sub>) \delta10.06 (1H, brs), 8.12 (
1 \text{ H}, d, J = 1.9 \text{ Hz}, 7.85 (1 \text{ H}, d, J = 1.9
Hz), 6.49 (2H, brs), 4.83 (2H, s), 4.16
 (2 H, t, J = 6.6 Hz), 3.91 (3 H, s), 1.66
-1.61 (2 H, m), 1.42-1.34 (2 H, m), 0.91 (
   t, J = 7.3
                Hz).
実施例8: 2-ブトキシー8-ヒドロキシー9-(3-ピリジルメチル)アデニン
2 ー クロロアデニン (5 2 0 m g, 3 m m o l) の D M F 溶液 (3 0 m l) に、炭酸カ
リウム (1.1g, 8 m m o l) と3 - クロロメチルピリジン・塩酸塩 (6 6 0 m g,
 5mmol)を加え、80℃で3時間加熱撹拌した。反応液を減圧濃縮した後、水を加
```

え析出した固体を濾取することにより2-クロロ-9-(3-ピリジルメチル)アデニン を得た(収量: 759 mg)。ブタノール(50 m l) にナトリウム(750 mg, 0 mmo 1 )を加え、90℃まで昇温して完溶させた。続いて2-クロロ-9-(3-ピ リジルメチル) アデニン (430 mg, 1.5 mmol) を加え、2時間加熱環流した 。溶媒を減圧濃縮した後、残査に水を加え、氷冷下に濃塩酸を滴下して中和した。塩化メ チレンを加えて分液し、有機層を減圧濃縮した。残査へ酢酸30m1を加えて溶解させた 後、臭素(660mg、 5.5mmol)を加え、室温で一昼夜反応させた。反応液を 減圧留去した後、残査をシリカゲルカラムクロマトグラフィーで精製し(塩化メチレン: メタノール 10:1)、8-ブロモ-2-ブトキシ-9-(3-ピリジルメチル)アデ ニンを310mg得た。引き続き、参考例3及び実施例1と同様の操作により標記化合物

1 H NMR  $(DMSO-d_6) \delta 10.22 (1H, brs), 8.56$ d, J = 1.9 Hz), 8.49-8.47 (1H, m),.71-7.67 (1H, m), 7.38-7.33 (1H, m), 6.54 (2H, brs), 4.90 (2H, s), 4.14 (2H,  $J = 6.6 \, Hz$ ), 1.65-1.57 (2H, m), 1.41-1.3  $3 \quad (2 \text{ H}, \text{ m}), \quad 0.90 \quad (3 \text{ H}, \text{ t}, \text{ J} = 7.3 \text{ Hz}).$ 

実施例9: 2-ブトキシー8-ヒドロキシー9-(4-ピリジルメチル)アデニン

対応する出発物質を用いて実施例1と同様にして標記化合物を得た。

 $^{1}$  H NMR (DMSO-d<sub>6</sub>)  $\delta$  10.20 (1H, brs), 8.70-8 . 68 (2H, m), 7.29-7.27 (2H, m), 6.48 (2 H. 4.92 (2H, s), 4.16 (2H, t, J = 6. brs), 6 Hz), 1. 63-1. 55 (2 H, m), 1. 40-1. 32 (2 H, m), 0.89 (3H, t, J = 7.3 Hz).

実施例10: 2-ブトキシー9- (ピラジン-2-イルメチル) -8-メトキシアデニ ン

対応する出発物質を用いて実施例1と同様にして標記化合物を得た。

 $^{1}$  H NMR (DMSO-d $_{6}$ )  $\delta$ 10.02 (1H, brs), 8.66 ( 1 H, s), 8.56-8.53 (2 H, m), 6.48 (2 H, brs) 5.05 (2H, s), 4.06 (2H, t, J = 6.6 Hz) 1. 59-1.51 (2 H, m), 1. 37-1.29 (2 H, m), 0.87 (3H, t, J = 7.3 Hz).

ドロキシアデニン

参考例2と同様にして得られた 2-n-ブトキシ-8-ブロモ-9-(5,6-ジクロ ol)のブタノール(4 mL)懸濁液に濃塩酸(4 mL)を加え、70℃で9時間反 応させた。反応液を減圧濃縮した後、氷冷下、残渣に水(30 mL)を加え、1N水酸 化ナトリウム水溶液で中和した。析出した固体を濾取した後、粗結晶をシリカゲルカラム クロマトグラフィーで精製し(塩化メチレン:メタノール 25:1)、白色粉末結晶と して標記化合物を45 mg得た(収率: 35%)。

 $^{1}$  H NMR (DMSO-d  $_{6}$ )  $\delta$  10.16 (1H, brs), 8.36 ( 1 H, d, J = 1.9 Hz), 8.06 (1 H, d, J = 1.9Hz), 6.52 (2H, brs), 4.93 (2H, s), 4.13 (2 H, t, J = 6.6 Hz), 1.64-1.58 (2 H,m), 1. 40-1. 32 (2 H, m), 0. 90 (3 H, t, J = 7. 3 H z ) .

実施例12: ドロキシアデニン

対応する出発物質を用いて実施例11と同様の方法で標記化合物を得た。

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^{1} H NMR (DMSO-d<sub>6</sub>) \delta10.12 (1H, brs), 7.66 (
1 H, d, J = 8.4 Hz), 7.52 (1 H, d, J = 8.4
 Hz), 6.52 (2H, brs), 4.92 (2H, s), 4.08
       t, J = 6.6 \, \text{Hz}), 1.60 - 1.52 \, (2 \, \text{H}, m),
 1. 37-1.29 (2 H, m), 0.88 (3 H, t, J = 7.4
実施例13: 2-ブトキシ-9-(6-ピペリジノ-3-ピリジルメチル)-8-ヒド
ロキシアデニン
ピペリジン (3 m L) に実施例1で得られる化合物 (100 mg, 0.29 mm
ol)を加え、90℃で30時間反応させた。反応液を減圧濃縮した後、残渣に塩化メチ
                                                10
レン(50 m L)を加え固体を析出させた。析出固体を濾取し、水洗することにより白
色粉末固体として標記化合物を 5 6 m g 得た (収率: 4 9 %)。
^{1} H NMR (DMSO-d<sub>6</sub>) \delta 9.79 (1H, brs),
                                     8.09 (1
H, d, J = 2.4 Hz), 7.47 (1H, dd, J = 2.4
  8.6 \text{ Hz}), 6.75 \text{ (1H, d, J} = 8.6 \text{ Hz}), 6.4
  (2H, brs), 4.70 (2H, s), 4.17 (2H,
J = 6.5 Hz), 3.48-3.44 (4H, m), 1.67-1.3
5 (10H, m), 0.92 (3H, t, J = 7.3 Hz).
実施例14: 2-ブトキシー9-(6-(1-ピロリジニル)-3-ピリジルメチル)
<u>-8-ヒドロキシアデニン</u>
実施例1で得られる化合物とピロリジンを用いて、実施例13と同様の方法で標記化合物
^{1} H NMR (DMSO-d _{6}) \delta 10.03 (1H, brs), 8.07 (
1 H, d,
       J = 2.4 Hz), 7.46 (1H, dd, J = 2.
4, 8.6 Hz), 6.45 (2H, brs), 6.37 (1H, d,
J = 8.6 Hz), 4.69 (2H, s), 4.16 (2H, t,
J = 6.6 \, Hz), 3.33-3.29 \, (4H, m), 1.93-1.8
8 (4 H, m), 1.67-1.59 (2 H, m), 1.43-1.35
(2H, m), 0.92 (3H, t, J = 7.3 Hz).
<u>実施例15: 2ーブトキシー9ー(6ーモルホリノー3ーピ</u>リジルメチル)-8-ヒド
ロキシアデニン
実施例1で得られる化合物とモルホリンを用いて、実施例13と同様の方法で標記化合物
^{1} H NMR (DMSO-d_{6}) \delta10.01 (1H, brs), 8.14 (
1 \, H, d, J = 2.4 \, Hz), 7.53 \, (1 \, H, dd, J = 2.
4, 8. 6 Hz), 6. 78 (1H, d, J = 8.6 Hz), <math>6.
45 (2H, brs), 4.73 (2H,s), 4.16 (2H, t,
J = 6.6 Hz), 3.66 (4H, t, J = 4.9 Hz), 3
.38 (4H, t, J = 4.9 Hz), 1.67-1.61 (2H,
m), 1.43-1.35 (2H, m), 0.92 (3H, t, J =
7.3 Hz).
実施例16: 2-ブトキシー9-(6-ジメチルアミノ-3-ピリジルメチル)-8-
ヒドロキシアデニン
実施例1で得られる化合物と40%ジメチルアミン水溶液を用いて、実施例13と同様の
方法で標記化合物を得た。
^{1} H NMR (DMSO-d _{6}) \delta 10.12 (1H, brs), 8.09 (
1 \, H, d, J = 2 \cdot 4 \, Hz), 7 \cdot 48 \, (1 \, H, dd, J = 2.
4, 8.9 Hz), 6.57 (1H, d, J = 8.9 Hz), 6.
49 (2H, brs), 4.70 (2H, s), 4.16 (2H, t,
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J = 6.6 Hz), 2.97 (6H, s), 1.70-1.46 (2H)

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, m), 1.43-1.33 (2H, m), 0.92 (3H, t, J
= 7.3 Hz).
実施例17: 2-ブチルアミノ-9-(6-クロロ-3-ピリジルメチル)-8-ヒド
ロキシアデニン
参考例5で得られる化合物を用いて、実施例11と同様の方法で標記化合物を得た。
^{1} H NMR (DMSO-d<sub>6</sub>) \delta10.10 (1H, brs), 8.56 (
1 H, d, J = 1.9 Hz), 8.49-8.47 (1 H, m), 7
.71-7.67 (1H, m), 7.38-7.33 (1H, m), 6.5
0 (2H, brs), 4.90 (2H, s), 4.14 (2H, t,
J = 6.6 \, Hz), 1.67-1.57 (2H, m), 1.41-1.3
0 (2 H, m), 0.90 (3 H, t, J = 7.3 Hz).
実施例18: 2-ブチルアミノー9-(2-クロロ-3-ピリジルメチル)-8-ヒド
ロキシアデニン
参考例5で得られる化合物を用いて、実施例11と同様の方法で標記化合物を得た。
^{1} H NMR (DMSO-d _{6}) \delta 9. 76 (1H, brs), 8. 35-8.
32 (1 H, m), 7.47-7.36 (2 H, m), 6.23 (1 H,
 brt, J = 5.7 Hz), 6.07 (2H, s), 4.88 (2
H, s), 3.13-3.05 (2H, m), 1.43-1.27 (2H,
 m), 1.24-1.16 (2H, m), 0.82 (3H, t, J =
 7.3 Hz).
実施例19: 2-ブチルアミノー8-ヒドロキシー9-(6-メトキシー3-ピリジル
<u>メチル)ア</u>デニン
参考例 5 で得られる化合物を用いて、実施例11と同様の方法で標記化合物を得た。
^{1} H NMR (DMSO-d _{6}) \delta 10.07 (1H, brs), 8.17 (
1 \, H, d, J = 2.4 \, Hz), 7.67 \, (1 \, H, dd, J = 2.
4, 8.4 Hz), 6.82-6.76 (2H, m), 6.60 (2H,
brs), 4.78 (2H, s), 3.81 (3H, s), 3.25-
3. 17 (2 H, m), 1. 5 4 - 1. 4 3 (2 H, m), 1. 3 8 - 1.
25 (2H, m), 0.89 (3H, t, J = 7.3 Hz).
実施例20: 2-ブチルアミノー8-ヒドロキシー9-(2-ピリジルメチル)アデニ
参考例 5 で得られる化合物を用いて、実施例11と同様の方法で標記化合物を得た。
^{1} H NMR (DMSO-d<sub>6</sub>) \delta10.88 (1H, s), 8.56-8.5
4 (1 H, m), 8.05-7.89 (3 H, m), 7.46-7.41
(2H, m), 5.05 (3H, s), 3.19-3.14 (2H,
  1. 44-1. 21 (4H, m), 0.81 (3H, t, J = 7.
3 Hz).
<u>実施例21: 2-ブチルアミノー8-ヒドロキシー9-(3-ピリジ</u>ルメチル)アデニ
参考例 5 で得られる化合物を用いて、実施例11と同様の方法で標記化合物を得た。
                                              40
^{1} H NMR (DMSO-d _{6}) \delta 9.78 (1H, brs), 8.55 (1
H, d, J = 2.4 Hz), 8.47 (1H, dd, J = 1.9
 4. 9 Hz), 7. 68 (1 H, d, J = 7.8 Hz), 7. 3
4 (1H, dd, J = 4.9, 7.8Hz), 6.21 (1H, br
t, J = 5.5 Hz), 6.05 (2H, brs), 4.84 (2H)
s), 3.20-3.12 (2H, m), 1.47-1.39 (2H,
m), 1.32-1.24 (2H, m), 0.87 (3H, t, J =
7.3 Hz).
実施例22: 2-ブチルアミノ-8-ヒドロキシ-9-(4-ピリジルメチル)アデニ
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<u>ン</u>

J = 2.2,

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参考例5で得られる化合物を用いて、実施例11と同様の方法で標記化合物を得た。
^{1} H NMR (DMSO-d<sub>6</sub>) \delta11.05 (1H, brs), 8.76
2 \text{ H}, d, J = 8.7 \text{ Hz}), 8.09-7.88 \text{ (3 H, m)}, 7
.73 (2H, d, J = 8.7 Hz), 5.09 (2H, s),
. 22-3.17 (2H, m), 1.47-1.32 (2H, m), 1.2
9-1.18 (2 H, m), 0.82 (3 H, t, J = 7.4 Hz)
<u> 実 施 例 2 3 : 2 ーブ</u>チルアミノー 9 ー ( 2 , 6 ージクロロー 3 ーピリジルメチル) - 8
ーヒドロキシアデニン
参考例5で得られる化合物を用いて、実施例11と同様の方法で標記化合物を得た。
                                                10
^{1} H NMR (DMSO-d _{6}) \delta 9.82 (1H, brs), 7.61-7.
51 (2H, m), 6.23 (1H, brt, J = 5.4 Hz),
6.08 (2 H, s), 4.87 (2 H, s), 3.12-3.05 (2
H, m), 1.40-1.19 (4 H, m), 0.82 (3 H, t, J
= 7.3 Hz).
<u> 実施例24: 2 ーブチルアミノー9ー(6ージメチルアミノー3ーピリジルメチル)-</u>
8 - ヒドロキシアデニン
実施例17で得られる化合物と40%ジメチルアミン水溶液を用いて、実施例13と同様
の方法で標記化合物を得た。
^{1} H NMR (DMSO-d<sub>6</sub>) \delta 9.61 (1H, brs), 8.10 (1
H, d, J = 2.2 Hz), 7.49 (1H, dd,
                                     J = 2.2
, 8.6 \, Hz), 6.56 \, (1H, d, J = 8.6 \, Hz), 6.1
8 (1H, brt, J = 5.7 Hz), 5.97 (2H, brs),
 4.65 (2H, s), 3.22-3.15 (2H, m), 2.97 (
6 \text{ H}, \text{ s}), 1.53-1.
42 (2H, m), 1.38-1.24 (2H, m), 0.89 (3H,
 t, J = 7.3 Hz).
実施例25: 2-ブトキシー8ーヒドロキシー9ー(6-メチルー3ーピリジルメチル
)アデニン
対応する出発物質を用いて実施例1と同様にして標記化合物を得た。
^{1} H NMR (DMSO-d _{6}) \delta 9.95 (1H, s), 8.42 (1H,
d, J = 2.2 Hz), 7.58 (1H, dd, J = 2.2,
8.1 \, Hz), 7.20 \, (1H, d, J = 8.1 \, Hz), 6.46
(2H, brs), 4.84 (2H, s), 4.14 (2H, j,
= 6.6 Hz), 2.41 (3H, s), 1.62 (2H, m), 1
.37 (2H, m), 0.90 (3H, t, J = 7.3 Hz).
実施例26: 2-ブトキシー8-ヒドロキシー9-(2-メチルー3-ピリジルメチル
) アデニン
対応する出発物質を用いて実施例1と同様にして標記化合物を得た。
^{1} H NMR (DMSO-d<sub>6</sub>) \delta10.01 (1H, brs), 8.33 (
1 \, H, d, J = 3.1 \, Hz), 7.39 \, (1 \, H, d, J = 6.4
Hz), 7.15 (1H, dd, J = 3.1, 6.4 Hz), 6.
49 (2H, brs), 4.88 (2H,s), 4.10 (2H, t,
J = 6.6 Hz), 2.59 (3H, s), 1.59 (2H, m),
1.34 (2H, m), 0.88 (3H, t,
                              J = 7.3 Hz).
実施例27: 2-ブチルアミノー8-ヒドロキシ-9-(6-メチルー3-ピリジルメ
チル)アデニン
参考例5で得られる化合物を用いて、実施例11と同様の方法で標記化合物を得た。
^{1} H NMR (DMSO-d _{6}) \delta 9.78 (1H, s), 8.42 (1H,
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d, J = 2.2 Hz), 7.57 (1H, dd,

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8. \ 0 \ Hz), 7. \ 19 \ (1 H, d, J = 8. \ 0 \ Hz), 6. \ 2 \ 2
(1 H, t, J = 7.1 Hz), 6.09 (2 H, brs), 4.7
8 (2 H, s), 3.16 (2 H, m), 2.41 (3 H, s), 1
.44 (2H, m), 1.28 (2H, m), 0.87 (3H, t,
J = 9.6 Hz).
実施例28: 2-ブチルアミノ-8-ヒドロキシ-9-(2-メチル-3-ピリジルメ
チル)アデニン
参考例5で得られる化合物を用いて、実施例11と同様の方法で標記化合物を得た。
^{1} H NMR (DMSO-d<sub>6</sub>) \delta 9.70 (1H, s), 8.32 (1H,
 d, J = 3.1 Hz), 7.37 (1H, d, J = 7.7 Hz)
                                                 10
, 7.14 (1H, dd, J = 3.1, 7.7 Hz), 6.20 (
1 H, t, J = 6.4 Hz), 6.0 (2 H, brs), 4.82
(2H, s), 3.12 (2H, m), 2.60 (3H, s), 1.3
9 (2H, m), 1.25 (2H, m), 0.84 (3H, t, J
= 7.1 Hz).
実施例29: 2-ブチルアミノー9-(2-クロロー6-メチルー3-ピリジルメチル
) - 8 - ヒドロキシアデニン
参考例5で得られる化合物を用いて、実施例11と同様の方法で標記化合物を得た。
^{1} H NMR (DMSO-d<sub>6</sub>) \delta 9.74 (1H, brs), 7.33 (1
H, d, J = 5.8 Hz), 7.22 (1H, d, J = 5.8 H
z), 6.24 (1H, m), 6.06 (2H, brs), 4.83 (
2H, s), 3.09 (2H, m), 2.42 (3H, s), 1.37
 (2 H, m), 1.25 (2 H, m), 0.82 (3 H, t, J =
 5.5 Hz).
実施例30: 2-ブチルアミノ-8-ヒドロキシ-9-(6-ヒドロキシ-3-ピリジ
<u>ルメチル) アデニン</u>
参考例5で得られる化合物を用いて、実施例11と同様の方法で標記化合物を得た。
^{1} H NMR (DMSO-d<sub>6</sub>) \delta 11.50 (1H, brs), 9.61 (
1 \, H, b \, r \, s), 7 \, . \, 4 \, 5 (1 \, H, d \, d, J = 2 \, . \, 6,
                                       9.5 Hz)
, 7.28 (1H, d, J = 2.6 Hz), 6.28 (1H, d,
 J = 9.5 Hz), 6.22 (1H, t, J = 6.2 Hz), 6
.00 (2H, brs), 4.53 (2H, s), 3.17 (2H, q
 J = 6.2 Hz), 1.45 (2H, m), 1.30 (2H, m)
, 0.88 (3H, t, J = 7.3 Hz).
実施例31: 8-ヒドロキシ-2-(2-メトキシ)エトキシ-9-(3-ピリジルメ
チル)アデニン
対応する出発物質を用いて実施例1と同様の方法で標記化合物を得た。
^{1} H NMR (DMSO-d<sub>6</sub>) \delta10.02 (1H, brs),
1 \, H, s), 8.48 (1 \, H, d, J = 4.8 Hz), 7.70 (
1 H, d, J = 6.1 Hz), 7.36 (1 H, dd, J = 4.
8, 6.1 Hz), 6.50 (2H, brs), 4.90 (2H,
, 4.27 (2H, t, J = 4.6 \text{ Hz}), 3.59 (2H, t,
J = 4.6 Hz), 3.27 (3H, s).
実施例32: 8-ヒドロキシ-2-メトキシ-9-(3-ピリジルメチル)アデニン
実施例1と同様の方法で標記化合物を得た。
^{1} H NMR (DMSO-d<sub>6</sub>) \delta10.04 (1H, brs), 8.57 (
1 \, H, s), 8.48 (1 \, H, d, J = 4.8 \, Hz), 7.71 (
1 \, H, d, J = 6 \cdot 1 \, Hz), 7 \cdot 35 \, (1 \, H, dd, J = 4.
8, 6.1 Hz), 6.53 (2H, brs), 4.90 (2H, s)
, 3.76 (3H, s).
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実施例33: 2-ブチルアミノー8-エトキシカルボニルオキシー9-(6-メトキシ -3-ピリジルメチル)アデニン

実施例19で得られる化合物(200 mg, 0.58 mmol)の塩化メチレン溶 液 (15 mL) に、トリエチルアミン  $(100 \text{ } \mu\text{ } \text{L}, 0.75 \text{ } \text{mmol})$ 、クロ ロぎ酸エチル (67  $\mu$  L, 0.70 mmol)、ジメチルアミノピリジン(20 mg, 0.17 mmol)を順次加え、室温で15時間反応させた。反応液に水を 加え有機層を抽出した。5% クエン酸水溶液、10%食塩水で洗浄して無水硫酸ナトリ ウムで乾燥した後、溶媒を減圧留去した。残渣にヘキサンを加え、固体を析出させて濾取 し、白色粉末固体として標記化合物を170 mg得た(収率: 71%)。

 $^{1}$  H NMR (CDC1 $_{3}$ )  $\delta$ 8.33 (1H, d, J = 1.9 Hz), 7.75 (1H, dd, J = 1.9, 8.4 Hz), 6.15 (2 H, brs), 6.67 (1 H, d, J = 8.4 Hz), 4.87(2 H, s), 4.71 (1 H, brt, J = 5.4 Hz), 4.46(2 H, q, J = 7.1 Hz), 3.90 (3 H, s), 3.41-3.34 (2 H, m), 1.60-1.35 (7 H, m), 0.96 (3 H, t, J = 7.3 Hz).

実施例34: 2-ブチルアミノー9-(6-クロロ-3-ピリジルメチル)-8-エト キシカルボニルオキシアデニン

実施例17で得られる化合物とクロロぎ酸エチルを用いて、実施例33と同様の方法で標 記化合物を得た。

<sup>1</sup> H NMR (CDCl<sub>3</sub>)  $\delta$ 8.55 (1H, d, J = 2.4 Hz), 7.81 (1H, dd, J = 2.4, 8.4 Hz), 7.27 (1 H, d, J = 8.4 Hz), 6.06 (2H, brs), 4.93(2 H, s), 4.83 (1 H, brt, J = 5.5 Hz), 4.47(2 H, q, J = 7.1 Hz), 3.40-3.32 (2 H, m),1. 59-1. 36 (7 H, m), 0. 95 (3 H, t, J = 7. 3H z ) .

実施例35: 2ーブチルアミノー8ーイソプロポキシカルボニルオキシー9ー(6ーメ トキシー3ーピリジルメチル)アデニン

実施例19で得られる化合物とクロロぎ酸イソプロピルを用いて、実施例33と同様の方 法で標記化合物を得た。

 $^{1}$  H NMR (CDC1 $_{3}$ )  $\delta$  8.32 (1H, d, J = 2.2 Hz), 7.74 (1H, dd, J = 2.2, 8.9 Hz), 6.68 (1 H, d, J = 8.9 Hz), 6.08 (2H, brs), 5.23-5.13 (1H, m), 4.89 (1H, brt, J = 5.8 Hz), 4.87 (2H, s), 3.91 (3H, s), 3.42-3.35 ( 2 H, m), 1.60-1.52 (2 H, m), 1.48-1.37 (8 H, m), 0.96 (3H, t, J = 7.3 Hz).

プロポキシカルボニルオキシアデニン

実施例17で得られる化合物とクロロぎ酸イソプロピルを用いて、実施例33と同様の方 法で標記化合物を得た。

 $^{1}$  H NMR (CDC1<sub>3</sub>)  $\delta$  8.55 (1H, d, J = 1.9 Hz), 7.80 (1 H, dd, J = 1.9, 8.4 Hz), 7.27 (1 H, d, J = 8.4 Hz), 6.14 (2H, brs), 5.24-5. 14 (1 H, m), 4. 96-4. 92 (3 H, m), 3. 40-3. 3 3 (2 H, m), 1.62-1.51 (2 H, m), 1.45-1.34(8 H, m), 0.95 (3 H, t, J = 7.3 Hz).

実施例37:  $2-\overline{7}$ トキシ-8-エトキシカルボニル $\underline{7}$ キシ-9-(6-メトキシ-3<u>ーピリジルメチル)アデニン</u>

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実施例2で得られる化合物とクロロぎ酸エチルを用いて、実施例33と同様の方法で標記 化合物を得た。

 $^{1}$  H NMR (CDCl<sub>3</sub>)  $\delta$ 8.33 (1H, d, J = 2.4 Hz), 7.75 (1 H, dd, J = 2.4, 8.1 Hz), 6.68 (1 H, d, J = 8.1 Hz), 6.15 (2H, brs), 4.93(2 H, s), 4.48 (2 H, q, J = 7.1 Hz), 4.302 H, t, J = 6.6 Hz), 3.90 (3 H, s), 1.83-1. 7 2 (2 H, m), 1. 5 3 - 1. 4 3 (5 H, m), 0. 9 8 (3 H t, J = 7.3 Hz.

実施例38: 2-ブトキシー9- (6-クロロー3-ピリジルメチル) -8-エトキシ カルボニルオキシアデニン

実 施 例 1 で 得 ら れ る 化 合 物 と ク ロ ロ ぎ 酸 エ チ ル を 用 い て 、 実 施 例 3 3 と 同 様 の 方 法 で 標 記 化合物を得た。

 $^{1}$  H NMR (CDC1<sub>3</sub>)  $\delta$ 8.56 (1H, d, J = 2.4 Hz), 7.81 (1H, dd, J = 2.4, 8.4 Hz), 7.29 (1 H, d, J = 8.4 Hz), 7.28 (2H, brs), 4.99 (2H, s), 4.49 (2H, q, J = 7.0 Hz), 4.282 H, t, J = 6.6 Hz), 1.81-1.71 (2 H, m), .52-1.43 (5 H, m), 0.97 (3 H, t, J = 7.3 H z ) .

実施例39: 2-ブトキシー9- (2-クロロー3-ピリジルメチル) -8-エトキシ カルボニルオキシアデニン

実施例5で得られる化合物とクロロぎ酸エチルを用いて、実施例33と同様の方法で標記 化合物を得た。

<sup>1</sup> H NMR (DMSO-d<sub>6</sub>)  $\delta$ 8.37-8.35 (1H, m), 7.73 -7.69 (1 H, m), 7.41-7.37 (1 H, m), 7.09 ( 2H, brs), 4.95 (2H, s), 4.39 (2H, q, J =7.2 Hz), 4.12 (2H, t, J = 6.6 Hz), 1.61 -1.53 (2H, m), 1.37-1.29 (5H, m), 0.87 ( 3 H, t, J = 7.3 Hz).

実施例40: 2-ブトキシー8-メトキシカルボニルオキシー9-(3-ピリジルメチ ル)アデニン

実施例8で得られる化合物とクロロぎ酸メチルを用いて、実施例33と同様の方法で標記 化合物を得た。

<sup>1</sup> H NMR (CDC1<sub>3</sub>)  $\delta$ 8.77 (1H, d, J = 2.2Hz), 8. 56-8. 53 (1 H, m), 7. 85-7. 81 (1 H, m), 7. 25 (2H, brs), 7.24-7.22 (1H, m), 5.02H, s), 4.30 (2H, t, J = 6.6 Hz), 4.05 (3H 1. 82-1. 72 (2 H, m), 1. 53-1. 42 (2 H, , s), m), 0.97 (3H, t, J = 7.3 Hz).

実施例41: 2-ブトキシー8- (n-ペンチルオキシ)カルボニルオキシー9- (3 - ピリジルメチル) アデニン

実施例8で得られる化合物とクロロぎ酸nーペンチルを用いて、実施例33と同様の方法 で標記化合物を得た。

 $^{1}$  H NMR (DMSO-d<sub>6</sub>)  $\delta$ 8.59 (1H, d, J = 1.9 Hz ), 8.51-8.48 (1H, m), 7.75-7.72 (1H, m), 7. 39-7.34 (1H, m), 7.07 (2H, brs), 4.92 (2 H, s), 4.32 (2 H, t, J = 6.6 Hz), 4.18(2 H, t, J = 6.5 Hz), 1.71-1.61 (4 H,1. 41-1. 31 (6H, m), 0. 93-0. 85 (6H, m).

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(121)
                               JP 2004-137157 A 2004.5.13
実施例 4 2: 2-ブトキシー8-(シクロヘキシルオキシ)カルボニルオキシー9-(
3-ピリジルメチル) アデニン
実施例8で得られる化合物とクロロぎ酸シクロヘキシルを用いて、実施例33と同様の方
法で標記化合物を得た。
<sup>1</sup> H NMR (DMSO-d_6) \delta8.60 (1H, d_1) J = 1.9 Hz
), 8.51-8.49 (1H, m), 7.76-7.72 (1H, m),
7.39-7.35 (1H, m), 7.07 (2H, brs), 4.96-
4.93 (3 H, m), 4.18 (2 H, t, J = 6.5 Hz),
1. 86-1. 58 (8 H, m), 1. 44-1. 33 (6 H, m), 0.
91 (3 H, t, J = 7.4 Hz).
                                                10
実施例43 : 8-(アリルオキシ)カルボニルオキシ-2-ブトキシ-9-(3-ピ
リジルメチル) アデニン
実施例8で得られる化合物とクロロぎ酸アリルを用いて、実施例33と同様の方法で標記
化合物を得た。
^{1} H NMR (DMSO-d<sub>6</sub>) \delta 8.61 (1H, d, J = 1.9 Hz
), 8.51-8.49 (1H, m), 7.77-7.74 (1H, m),
7.39-7.35 (1 H, m), 7.25 (1 H, dd, J = 6.5
, 13.8 Hz), 7.03 (2H, brs), 5.06 (1H, dd
J = 1.9, 13.8 Hz), 4.93 (2H, s), 4.86 (1H, dd, J = 1.9, 6.5 Hz), 4.19 (2H, t,
 = 6.6 \text{ Hz}), 1.64-1.41 (2 H, m), 1.39-1.3
3 (2 H, m), 0.91 (3 H, t, J = 7.4 Hz).
実施例44: 8-アセチルオキシー2-ブトキシー9-(6-クロロー3-ピリジルメ
チル)アデニン
実施例17で得られる化合物と無水酢酸を用いて、実施例33と同様の方法で標記化合物
を得た。
<sup>1</sup> H NMR (CDC1<sub>3</sub>) \delta 8.56 (1H, d, J = 2.4 Hz),
 7.80 (1H, dd, J = 2.4, 8.4 Hz), 7.30 (1
H, d, J = 8.4 Hz), 7.28 (2H, brs), 5.00
(2 H, s), 4.29 (2 H, t, J = 6.5 Hz), 2.72
3 \, H, s), 1.82-1.71 (2 \, H, m), 1.52-1.42 (2 \, H
, m), 0.97 (3H, t, J = 7.3 Hz).
実施例45: 8-プロピオニルオキシー2-ブトキシー9-(6-クロロー3-ピリジ
ルメチル)アデニン
実施例17で得られる化合物と塩化プロピオニルを用いて、実施例33と同様の方法で標
記化合物を得た。
<sup>1</sup> H NMR (CDC1<sub>3</sub>) \delta8.55 (1H, d, J = 2.4 Hz),
7.80 (1H, dd, J = 2.4, 8.1 Hz), 7.30 (1
H, d, J = 8.1 Hz), 7.28 (2H, brs), 5.00
(2 H, s), 4.29 (2 H, t, J = 6.5 Hz), 3.14 (40
2 H, q, J = 7.4 Hz), 1.82-1.71 (2 H, m),
                                             1
.55-1.42 (2H, m), 1.23 (3H, t, J = 7.3
               t, J = 7.3 Hz).
z), 0.97 (3H,
実施例46: 8-ベンゾイルオキシー2-ブトキシー9-(6-メチルー3-ピリジル
メチル)アデニン
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実施例25で得られる化合物と塩化ベンゾイルを用いて、実施例33と同様の方法で標記化合物を得た。

 $^{1}$  H NMR (CDC1 $_{3}$ )  $\delta$  8.64 (1H, d, J = 2.4 Hz), 7.77 (2H, d, J = 7.3 Hz), 7.69 (1H, dd, J = 2.4, 8.1 Hz), 7.63 (1H, t, J = 7.3 H 50

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z), 7.49 (2H, t, J = 7.3 Hz), 7.09 (1H,
d, J = 8.1 Hz), 5.76 (2H, brs), 4.95 (2H
, s), 4.34 (2H, t, J = 6.6 \text{ Hz}), 2.52 (3H)
 s), 1.78 (2H, m), 1.52 (2H, m), 0.99 (
3 H, t, J = 7. 3 Hz).
実施例 4 7: 8 - ベ<u>ンゾイルオキシ-2-ブチルアミノ-9-(6-メチル-3-ピリ</u>
ジルメチル) アデニン
実 施 例 2 7 で 得 ら れ る 化 合 物 と 塩 化 ベ ン ゾ イ ル を 用 い て 、 実 施 例 3 3 と 同 様 の 方 法 で 標 記
^{1} H NMR (CDCl<sub>3</sub>) \delta8.63 (1H, d, J = 2.0 Hz),
                                               10
 7.74 (2H, d, J = 7.4 Hz), 7.69 (1H, dd,
J = 2.0, 7.9 Hz), 7.61 (1H, t, J = 7.4 H
z), 7.47 (2H, t, J = 7.4 Hz), 7.08 (1H,
d, J = 7.9 Hz), 5.57 (2H, brs), 4.88 (2H
, s), 4.84 (1H, t, J = 5.9 Hz), 3.40 (2H
, m), 2.52 (3H, s), 1.58 (2H, m), 1.42 (
2H, m), 0.97 (3H, t, J = 7.3 Hz).
実施例 48: 2-ブトキシ-8-(4-メチル) ベンゾイルオキシー9-(6-メチル)
-3-ピリジルメチル)アデニン
実施例25で得られる化合物と塩化pートルオイルを用いて、実施例33と同様の方法で
標記化合物を得た。
^{1} H NMR (DMSO-d<sub>6</sub>) \delta 8.44 (1H, s), 7.73 (2H,
d, J = 8.2 Hz), 7.62 (1H,
                              d, J = 8.0 Hz
7.30 (2H, d, J = 8.2 Hz), 7.20 (1H, d,
 J = 8.0 \text{ Hz}), 6.84 (2H, brs), 4.84 (2H,
s), 4.22 (2H, t, J = 6.6 Hz), 2.42 (3H,
s), 2.40 (3H, s), 1.66 (2H, m), 1.41 (2H,
 m), 0.92 (3H, t, J = 7.4 Hz).
実施例49: 2 ーブチルアミノー8 - (4 ーメチル)ベンゾイルオキシー9 - (6 ーメ
<u>チルー3-ピリジルメチル)アデニン</u>
実施例27で得られる化合物と塩化pートルオイルを用いて、実施例33と同様の方法で
標記化合物を得た。
^{1} H NMR (DMSO-d _{6} ) \delta 8.43 (1H, s), 7.69 (2H,
d, J = 8.2 Hz), 7.62 (1H, d, J = 8.0 Hz)
, 7.28 (2H, d, J = 8.2 Hz), 7.19 (1H, d,
 J = 8.0 \text{ Hz}), 6.71 (1H, brs), 6.25 (2H,
brs), 4.80 (2H, s), 3.22 (2H, t, J = 6.6
II z), 2.42 (3H, s), 2.39 (3H, s), 1.46 (2
H, m), 1.30 (2H, m), 0.89 (3H, t, J = 7.
4 Hz).
実施例50:2-ブチルアミノ-8-ヒドロキシ-9-(1-ナフチルメチル)アデニン
参考例5で得られた化合物を用いて、実施例11と同様の方法で表記化合物を得た。
^{1} H NMR (DMSO-d<sub>6</sub>) d 9.79 (1H, s), 8.39-8.
41 (1H, m), 7.94-7.97 (1H, m), 7.83-7.86
(1 H, m), 7.55-7.59 (2 H, m), 7.40-7.46 (1
H, m), 7.26 (1 H, m), 6.17 (1 H, t, J = 5.
      6.05 (2H, s), 5.28 (2H, s), 3.09-
8 Hz),
3.16 (2 H, m), 1.36-1.44 (2 H, m), 1.21-1.2
9 (2 H, m), 0.83 (3 H, t, J = 7.4 Hz)
<u>実施例51:2-ブチルアミノー8-ヒドロキシー9-(2</u>-ナフチルメチル)アデニン 50
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参考例 5 で得られた化合物を用いて、実施例11と同様の方法で表記化合物を得た。
^{1} H NMR (DMSO-d_{6}) d 9.69 (1H, s), 7.84-7.
8 9 (3 II, m), 7.74 (1 H, s), 7.47-7.52 (3 H,
 m), 6.21 (1H, t, J = 5.8 Hz), 6.03 (2H,
 s), 4.97 (2H, s), 3.12-3.20 (2H, m), 1.
41-1.46 (2H, m), 1.22-1.31 (2H, m), 0.83
 (3 H, t, J = 7.4 Hz)
実施例52:2-ブトキシ-8-ヒドロキシ-9-(1-ナフチルメチル)アデニン
対応する出発物質を用いて、実施例1と同様の方法で表記化合物を得た。
^{1} H NMR (DMSO-d _{6}) d 10.21 (1H, s), 8.37-8
.41 (1 H, m), 7.85-7.98 (2 H, m), 7.55-7.6
 (2 H, m), 7.41-7.47 (1 H, m), 7.25-7.28
(1 H, m), 6.52 (2 H, s), 5.34 (2 H, s), 4.10
         J = 6.6 Hz), 1.55-1.61 (2H,
 (2H, d,
 1. 29-1.38 (2H, m), 0.87 (3H, t, J = 7.3
実施例53:2-ブトキシー8-ヒドロキシー9-(2-ナフチルメチル)アデニン
対応する出発物質を用いて、実施例1と同様の方法で表記化合物を得た。
^{1} H NMR (DMSO-d<sub>6</sub>) d 10.12 (1H, s), 7.87-7
.90 (3 H, m), 7.76 (1 H, s), 7.46-7.51 (3 H)
, m), 6.45 (2H, s), 5.02 (2H, s), 4.14 (
2 H, d, J = 6.6 Hz), 1.55-1.63 (2 H, m), 1
.31-1.39 (2 II, m), 0.88 (3 H, t, J = 7.3 H
実施例54:2-ブチルアミノー8-ヒドロキシー9-(5-クロロー2-チエニルメチ
<u>ル)アデ</u>ニン
参考例5で得られた化合物を用いて、実施例11と同様の方法で表記化合物を得た。
<sup>1</sup> H NMR (DMSO-d<sub>6</sub>) d 9.85 (1H, s), 6.96 (1
H, d, J = 3.8 Hz), 6.91 (1H, d, J = 3.8
          (1 H, t, J = 5.4 Hz), 6.07 (2 H,
Hz), 6.23
 s), 4.87 (2H, s), 3.15-3.23 (2H, m), 1.
43-1.53 (2H, m), 1.24-1.37 (2H, m), 0.89
 (3 H, t, J = 7.3 Hz)
実施例55<u>:2-ブチルアミノ-8-ヒドロキシ-9-(6-メチル-3-</u>ピリジルメチ
ル)アデニン 一硫酸塩
実施例 2 7 の化合物 (2.52 g, 7.70 mmol) のメタノール溶液 (520
ml)に0.5N 硫酸(30.8 ml)を加え、析出した結晶を濾取し、標記化合
物を得た。
mp 249-252 ℃
Calc: C 45.17, H 5.45, N 23.04, S 7.54
                                              40
Anal: C 44.96, H 5.56, N 22.90,
                                  S 7.53
<u>実施例56: マウス脾臓細胞におけるインターフェロン誘導作用(in vitro)</u>
C 3 H / H e J 系 マウス (雄性; 8 - 1 0 週齢) から脾臓を摘出し、 5 % F B S を含む M
EM培地を用いて 2 × 1 0 6 cells/mlの脾細胞懸濁液を調製し、24 穴マイク
ロプレートの各ウエルに 0.5 mlずつ分注した。そして、同培地で希釈した被験化合
物(0.2% DMSOを含む)を各ウエルに0.5 mlずつ添加し、5% CO。イ
ンキュベーター内で37℃、24時間培養した後、培養液を0.2マイクロメーターのフ
ィルターで無菌ろ過して培養上清を得た。培養上清中のインターフェロンカ価は J. A
. Armstrong, Methodsin Enzymology 78, 38
1-7 に記載のバイオアッセイにより定量した。すなわち 1\times10^4 cells \angle /50
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 $\mu$ 1のマウス繊維芽細胞 L929を96穴の培養プレートで24時間培養後、50 $\mu$ 1の希釈培養上清を添加し、更に24時間培養した。続いて水泡性口内炎ウイルスを 100 $\mu$ 1 ずつ添加し、ウイルス感染後44時間での細胞変性効果をクリスタルバイオレット染色により確認した。定量は、色素を2%デオキシコール酸ナトリウム水溶液で溶解し、595nmの吸収を測定することで行った。なお、参考化合物例1として、9-ベンジルー2-ブチルアミノー8-ヒドロキシアデニン(W099-28321の実施例24の化合物)、参考化合物例2として、9-ベンジルー2-ブトキシー8-ヒドロキシアデニン(W099-28321の実施例19の化合物)、比較例1としてR-837(イミキモド)、比較例2としてR-848(1-(2-ヒドロキシー2-メチルプロピル)-2-メトキシエチルー1H-イミダゾ [4,5-c]キノリンー4-アミン)を用いた。表2に各化合物の最少有効濃度を示す。

【表2】

インターフェロン誘導活性

			C > 103 -43.111   LT
化合物	最少有効濃度 (nM)	化合物	最少有効濃度 (nM)
実施例1	1	実施例18	10
実施例2	1	実施例19	3
実施例3	1	実施例20	30
実施例4	10	実施例21	3
実施例5	3	実施例22	10
実施例6	1	実施例23	10
実施例7	1	実施例24	3
実施例8	1	実施例25	1
実施例9	3	実施例26	I
実施例10	10	実施例27	3
実施例11	3	実施例28	10
実施例12	10	実施例29	10
実施例13	3	参考化合物1	100
実施例14	1	参考化合物2	1
実施例15	1	比較例1	300
実施例16	1	比較例2	3
実施例17	3		

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実施例 5 7: マウスにおけるインターフェロン誘導作用(in vivo) 被験化合物を 0.5%カルボキシメチルセルロース水溶液に懸濁し、Balb/c雄性マウスに経口投与した。 2 時間後心臓より採血し、血清中のインターフェロン力価を実施例 5 6 と同様の方法で測定した。表 3 に結果を示す。

【表3】

インターフェロン誘導活性(U/ml)

	投与量 (mg/kg)			
	0. 01	0. 03	0. 1	0.3
実施例1		123±87	$322 \pm 95$	623±32
実施例2	$25 \pm 17$	388±87	1211±263	$2559 \pm 495$
実施例3			$353 \pm 73$	1966±532
実施例5			$133 \pm 33$	473±9
実施例6			569±42	$1222 \pm 248$
実施例7			$347 \pm 149$	845 ± 22
実施例8	13±5	167±97	$725 \pm 141$	$936 \pm 438$
実施例9				$539 \pm 107$
実施例10		89±22	$409 \pm 267$	$733 \pm 256$
実施例11			$279 \pm 177$	$568 \pm 160$
実施例12				31±5
実施例13				$304 \pm 138$
実施例14				570±63
実施例15			52±32	$603 \pm 147$
実施例16			$251 \pm 46$	716±155
実施例17		$31 \pm 23$	$183 \pm 43$	$999 \pm 379$
実施例18				$94 \pm 49$
実施例19	14±5	$199 \pm 84$	$383 \pm 122$	$601 \pm 187$
実施例21		15±8	290±134	571±164
実施例22			21±9	$332 \pm 83$
実施例23			42±7	414±118
実施例24				$403 \pm 146$
実施例25	65±52	$151 \pm 29$	$753 \pm 140$	$721 \pm 299$
実施例26		121±11	$433 \pm 366$	$780 \pm 190$
実施例27		14±3	$324 \pm 66$	$804 \pm 274$
実施例28			186±62	$1462 \pm 260$
実施例29				$619 \pm 268$
参考化合物1			$55 \pm 25$	$275 \pm 165$
参考化合物2		$60 \pm 40$	$186 \pm 42$	$317 \pm 160$
比較例2			$1638 \pm 246$	$1961 \pm 950$

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実施例 5.9: ヒト末梢血単核球細胞(PBMC)におけるインターフェロン誘導作用 健常ボランティア 5名の末梢血をヘパリン加採血し、Lymphoprep  $^{T.M}$  (NYCOMED PHARMA AS)を用いた密度勾配遠心分離により単核球細胞(PBMC)を調製した。PBMCを無血清 RPMI 1640培地で2回洗浄した後、10%ウシ胎仔血清添加 RPMI 1640培地で1×10  $^6$  個/mlに調製し、ジメチルスルホキシド(終濃度 0. 1%)に溶解した被験化合物の存在下で 5 %  $^{C}$  С  $^{O}$  2 インキュベータ内で 3 7  $^{C}$  にて  $^{C}$  2 4時間培養した。なお、対照には被験化合物を含まない  $^{O}$  .  $^{C}$  1 % ジメチルスルホキシドを用いた。培養上清を無菌濾過により回収し、IFN誘導活性の測定実験に供するまで  $^{C}$  2 0  $^{C}$  以下で凍結保存した。培養上清中のヒトIFN- $^{C}$  の定量はアマ

インターフェロン誘導活性 (pg/ml)

	濃度(nM)				
	0. 3	1	3	10	30
実施例17	NT	5±3	17±17	$50 \pm 33$	61±38
実施例19	NT	5±1	12±11	48±34	$60 \pm 33$
実施例25	7±3	28±24	46±34	NT	NT
実施例27	NT	6±3	26±22	56±37	59±33
比較例2		_	6±5	NT	NT
参考化合物2	NT		7	$23 \pm 22$	$64 \pm 40$

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# 実施例60: 感作脾臓細胞からのTh2サイトカイン産生抑制作用

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## 【表 5】

IL-4産生阻害作用 (% of control)

		濃度(nM)			
	0. 1	1	10	100	
実施例1	98	7	2	<1	
実施例2	96	4	<1	<1	
実施例10	_	54	3	<1	
実施例17	_	40	1>	<1	
実施例19	_	32	<1	<1	
実施例20		106	23	2	
実施例21	_	53	1	<1	
実施例22	<del>-</del>	88	9	1	
実施例25	86	2	<1	<1	
実施例27		30	1	<1	
比較例」	-	18	1	<1	
比較例2	90	24	1	<1	
参考化合物1		_	109	24	
参考化合物2	107	48	1	<1	

IL-5産生阻害作用 (% of control)

	濃度 (nM)			
	0. 1	I	10	100
実施例1	116	41	16	15
実施例2	98	37	14	12
実施例10	Arres	91	32	15
実施例17	-	77	24	10
実施例19		83	16	13
実施例20		106	71	19
実施例21		97	23	15
実施例22		115	50	18
実施例25	102	31	13	13
実施例27		68	20	12
比較例1	-	54	15	10
比較例2	106	73	18	10
参考化合物1	-	ends.	92	69
参考化合物2	99	79	16	11

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実施例61: ラットにおける消化管吸収性

被験化合物を0.5%カルボキシメチルセルロース水溶液に懸濁し、SD系雄性ラットに経口投与した。経時的に採血し、血中の薬物濃度をHPLCにて測定した。下表にそのCmaxおよびTmaxを示す。

【表6】

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CmaxおよびTmax

	Dose	Cmax	Tmax
	(mg/kg)	(ng/ml)	(hr)
実施例17	3	310	1
実施例19	3	188	4
実施例25	3	18	1
の塩酸塩	10	150	0. 25
実施例27	3	565	0. 5
比較例1	3	90	0. 5
比較例2	3	19	1
レロギズプリる	10	15	0. 5

# 実施例62:溶解度

5. 53% クエン酸 (1水和物) と、1. 75% リン酸ニナトリウム (無水) を混合し調整した緩衝液 (pH 2. 5, 5. 5, 7. 4) に化合物を添加し、ボルテックスミキサーで撹拌、超音波で30分処理した後、再度ボルテックスミキサーで撹拌し、遠心分離 (15,000rpm,20min) する。その後、上澄中の化合物濃度をHPLCで定量した。下表にその濃度を示す。

【表7】

 $(\mu g/m1)$ 

	pH 2.5	pH 5.5	pH 7.4
実施例8	784	20	18
実施例 9	350	4	3
実施例 10		ļ	
	34	15	10
実施例 15	140	1	<1
実施例 16	293	NT	NT
実施例 19	130	2	. 2
実施例 20	8, 813	NT	NT
実施例 21	15, 000	45	64
実施例 22	>80, 000	73	16
実施例 24	27, 000	22	1
実施例 25	>1, 000	5	3
実施例 26	>1, 000	6	3
実施例 27	610	5	2
実施例 28	>1, 000	8	4
実施例 31	>1, 000	353	322
実施例 32	>1, 000	82	25
参考化合物 1	26	<1	<1
参考化合物 2	2	<1	<1

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# 実施例63:ラット好酸球浸潤モデルにおける実施例27の化合物の薬効評価

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day 0 およびday 7に卵白アルブミン(OVA) 1 mgとAl (OH)  $_3$  100 mgを含む溶液をラット腹腔内に 1 ml投与し免疫を行い、day 14に 1% OVA溶液を超音波ネブライザーにて 15分間噴霧し反応を惹起した。被験化合物の投与は惹起 2.5時間前の気管内投与とし、惹起 2.4時間後に気管支肺胞洗浄を行い洗浄液中の好酸球をHinkelman染色し、その数をカウントした。対照として Sensi. - Challe. +、CMC-Na及びFluticasoneを用いた。図 1及び下表にその結果を示す。

【表8】

	x 10° cells		
化合物(気管内投与)	平均	標準偏差	標準誤差
Sensi / Challe.+	26.22	15.60	6.37
CMC-Na	319,55	281.89	115.08
実施例 27 0.001mg/kg	383,85	392.01	160.04
実施例 27 0.01mg/kg	186,77	161.86	66.08
実施例 27 0.1mg/kg	46.84	51.84	21.16
Fluticasone 0.01mg/kg	300.07	231.84	94.65

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実施例 6 4 : マウス能動皮膚アナフィラキシーモデルにおける実施例 1 7 の化合物の薬効 評価

\_\_\_\_day Oに卵白アルブミン(ΟVA) 2 μgとAl(OH)<sub>3</sub> 5 mgを含む溶

液をマウス腹腔内に 500  $\mu$  1 投与し免疫を行い、 day 14 にエーテル麻酔維持下で <math>1 mg/ml 00 V A 溶液を左耳介に 20  $\mu$  l 皮内注射し反応を惹起した。被験化合物は惹起 2 時間前に左耳介の表裏に 10  $\mu$  l ずつ塗布し、惹起 24 時間後の耳介厚の測定をマイクロメータを用いて行った。対照としてアセトンを用いた。 図 2 及び下表にその結果を示す。

## 【表9】

		耳瞳脹 (mm	)
化合物	平均	標準偏差	標準誤差
アセトン	0.034	0.021	0.009
実施例 17 4 μ g/ear	0,046	0:024	0.010
実施例17 40μg/ear	0.048	0.013	0,005
実施例 17 400 μg/ear	0.014	0.008	0.003

実施例65:担癌モデルマウスにおける実施例27の化合物の抗腫瘍効果

6週齢の雄 BALB/cマウス(日本チャールス・リバー)の左腹側部にマウス腎癌由来Renca細胞株(岩手医大より入手)を $5\times10^4$  cells/0.05 ml/mouseで皮内移植した。翌日に体重測定を行い、体重の平均値がほぼ同等になるように6匹ずつ 5 群に分け、ビークル(0.5%カルボキシルメチルセルロース(以下、CMC-Naと記載する)水溶液)、1 mg/kg及び 3 mg/kgの実施例 2 7 の化合物を、経口ゾンテを用いて強制経口投与し(10 ml/kg)、またマウス当たり  $1\times10^4$  U/0.1 mlのマウスインターフェロン  $\alpha$  (以下、mIFN- $\alpha$ と記載する)を背部に皮下投与した。投与は 4 日毎に 5 回実施した。形成された腫瘍の長径 [L] (mm)及び短径 [W] (mm)を週2回計測し、腫瘍容積 [V] (mm³)を算出した( $V=L\timesW^2$ )。また、Steelの多重比較により有意差検定を行った。検定には TheSAS system for Windows(登録商標) Release 8.01 (SAS Institute Inc. Cary, NC, USA)を使用した。

移植から約30日の観察期間を設け、腫瘍容積ならびに体重をモニターし、Renca細胞株に対する抗腫瘍効果を評価した。薬剤の種類ごとにビークル投与と比較した腫瘍容積の平均値(n=6)を図3に示した。その結果、実施例27の化合物及びm I F  $N-\alpha$  投与群はビークル投与群に比べ腫瘍容積が有意に小さく(P <0.05)、実施例27の化合物投与はm I F  $N-\alpha$  投与と同等以上の抗腫瘍効果を示すことがわかった。

実施例 6 6 : 自然転移モデルマウスにおける実施例 2 7 の化合物の抗腫瘍効果 (転移抑制 効果)

6週齢の雌B6C3F1マウス(日本チャールス・リバー)の臀部に、マウスリンパ節高 転移性卵巣癌由来 O V 2 9 4 4 一 H M 一 1 細胞株(広島大より入手)を 1 x 1 0 6 cell 1 s / 0 . 0 5 m 1 / m o u s e で皮内移植した。移植 1 0 日後、ネンブタールル酔下で原発腫瘍を切除した。切除部に外科用接着剤(アロンアルファ)を塗布し、ウンドクリップにて断端を縫合した。翌日に体重測定を行い、体重の平均値がほぼ同等になる m g / k g の実施例 2 7 の化合物を、経口ゾンテを用いて強制経口投与し(1 0 m 1 / k g の実施例 2 7 の化合物を、経口ゾンテを用いて強制経口投与し(1 0 m 1 / k g g の実施り 2 7 の化合物を、経口ゾンテを用いて強制経口投与し(1 0 m 1 / k g g l た。投与は 4 日毎に 5 回実施した。移植後 3 5 日目に所属リンパ節(鼠頚、上腕、腋窩)た。投与は 4 日毎に 5 回実施した。同時に肺を摘出し、転移の有無を肉眼観察した。また、Steelの多重比較により有意差検定を行った。検定には T h e S A S s y s t e m f o r W i n d o w s (登録商標) R e l e a s e 8 . 0 1 (S A S I n s t i t u t e I n c . , C a r y , N C , U S A ) を使用した。

図4に示したように、最も大きい転移巣は原発腫瘍に近い鼠頚リンパ節であり、続いて腋窩リンパ節、上腕リンパ節の順であった。実施例27の化合物投与群は、ビークル投与群に比べ各転移リンパ節重量が小さく、転移抑制効果を示した。また、HM-1細胞株はリ

ンパ節転移のみならず高頻度に肺転移が認められる。このことから、肺転移について検討 した。下表に示したように、ビークル群では肉眼的所見で肺転移が6匹中5匹に認められ たが、実施例27の化合物では全く認められなかった。このように実施例27の化合物は リンパ節転移の抑制に加え、強い肺転移抑制効果を有することが示された。一方、mIF Ν-αはリンパ節転移を抑制せず、肺転移の頻度もビークル群のそれと変わらなかった。

## 【表10】

	6 匹中肺転移の認められた匹数
ビークル	5
マウスインターフェロンα	5
  実施例 27 の化合物	0

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実施例67: 製剤例

常法により次の組成からなる錠剤を製造した。

実施例25の化合物

1 0 m g

乳 糖

600 m g

でん粉

2 5 0 mg

ヒドロキシプロピルセルロース

3 0 m g

ステアリン酸カルシウム

5 m g

実施例68:製剤例

常法により次の組成の固体分散製剤を作成した。

実施例27の化合物

2 0 m g

ニッコール (界面活性剤)

5 m g

ヒドロキシプロピルセルロース

2 0 0 m g

メタノール

2 m 1

ジクロロメタン

2 m l

本明細書で引用した全ての刊行物をそのまま参考として本明細書中にとり入れるものとす る。

### [0025]

#### 【発明の効果】

本発明のアデニン誘導体は選択的かつ際だったインターフェロン誘導活性を有する。本発 明のアデニン誘導体は、生体内でインターフェロンの分泌を促進するので、インターフェ ロンが有効な疾患、例えばB型及びC型肝炎、エイズなどのウイルス疾患、癌疾患などの 予防又は治療に有用である。本発明のアデニン誘導体は低分子であるので、インターフェ ロン製剤とは異なり経口投与が可能であり、しかも水溶性に優れ消化管吸収率が高い化合 物である。更に、本発明のアデニン誘導体はTh2細胞から放出されるIL-4、IL-5 などの炎症性サイトカインの産生を選択的に阻害するため、喘息、アトピー性皮膚炎な どのTh2細胞が深く関与している疾患の予防又は治療薬として有用である。

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### [0026]

### 【図面の簡単な説明】

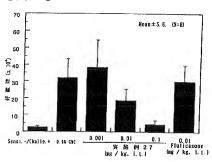
【図1】図1は、ラット好酸球浸潤モデルにおける本発明の化合物の薬効評価試験の結果 を示す図である。

【図2】図2は、マウス能動皮膚アナフィラキシーモデルにおける本発明の化合物の薬効 評価試験の結果を示す図である。

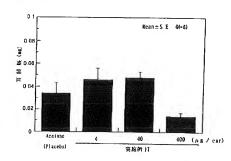
【図3】図3は、実施例65に記載の抗腫瘍効果試験の結果を示す図である。実施例27 の化合物、及びマウスインターフェロンαのそれぞれについて腫瘍容積をビークル(対照 群)と比較した。

【図4】図4は、実施例66に記載の抗腫瘍効果(転移抑制効果)試験の結果を示す図で ある。ビークル(対照群)、マウスインターフェロンα及び実施例27の化合物の各投与 群について各リンパ節の湿重量を比較した。

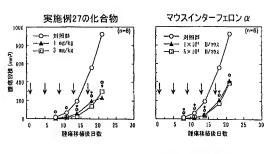
【図1】



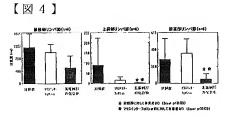
【図2】



# 【図3】



\*\* 対照群に対して有意差あり(Steel:p(0.05)



# フロントページの続き

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L1 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2004:391220 CAPLUS Full-text
DN 140:400029
ED Entered STN: 14 May 2004
    Pharmaceuticals containing adenines as interferon inducers and Th2
    cell-selective immunosuppressants for treatment of viral infection, tumor,
    or inflammation
TIJP 新規アデニン誘導体を有効成分として含有する医薬 [原題]
    Isobe, Yoshiaki; Ogita, Haruhisa; Tobe, Masanori; Takahisa, Haruo; Ogino,
    Tetsuhiro; Kurimoto, Ayumi; Kawakami, Hajime
PΑ
    Sumitomo Pharmaceutical Co., Ltd., Japan
    Jpn. Kokai Tokkyo Koho, 133 pp.
    CODEN: JKXXAF
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   Patent
LA Japanese
IC ICM A61K031-52
    ICS A61K031-5377; A61P031-14; A61P031-18; A61P031-20; A61P035-00;
        A61P037-06; A61P037-08; A61P043-00; C07D473-34
    1-5 (Pharmacology)
    Section cross-reference(s): 28, 63
FAN.CNT 1
    PATENT NO.
                     KIND DATE
                                   APPLICATION NO. DATE
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PI JP 2004137157
                      A 20040513
                                       JP 2002-301195 20021016 <--
PRAI JP 2002-301195
                            20021016
CLASS
 PATENT NO.
             CLASS PATENT FAMILY CLASSIFICATION CODES
 JP 2004137157 ICM
                     A61K031-52
             ICS
                   A61K031-5377; A61P031-14; A61P031-18; A61P031-20;
                   A61P035-00; A61P037-06; A61P037-08; A61P043-00;
                   C07D473-34
             IPCI A61K0031-52 [ICM,7]; A61K0031-519 [ICM,7,C*];
                   A61K0031-5377 [ICS,7]; A61K0031-5375 [ICS,7,C*];
                   A61P0031-14 [ICS,7]; A61P0031-18 [ICS,7]; A61P0031-20
                   [ICS,7]; A61P0031-00 [ICS,7,C*]; A61P0035-00 [ICS,7];
                   A61P0037-06 [ICS,7]; A61P0037-08 [ICS,7]; A61P0037-00
                   [ICS,7,C*]; A61P0043-00 [ICS,7]; C07D0473-34 [ICS,7];
                   C07D0473-00 [ICS,7,C*]
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                   [I,C*]; A61K0031-5377 [I,A]; A61P0031-00 [I,C*];
                   A61P0031-14 [I,A]; A61P0031-18 [I,A]; A61P0031-20
                   [I,A]; A61P0035-00 [I,A]; A61P0035-00 [I,C*];
                   A61P0037-00 [I,C*]; A61P0037-06 [I,A]; A61P0037-08
                   [I,A]; A61P0043-00 [I,A]; A61P0043-00 [I,C*];
                   C07D0473-00 [I,C*]; C07D0473-34 [I,A]
             FTERM 4C086/AA01; 4C086/AA02; 4C086/CB07; 4C086/MA01;
                   4C086/MA04; 4C086/NA14; 4C086/ZA75; 4C086/ZB08;
                   4C086/ZB13; 4C086/ZB26; 4C086/ZB33; 4C086/ZC41;
                   4C086/ZC55
OS
   MARPAT 140:400029
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$$\begin{array}{c|c}
 & \text{NH2} \\
 & \text{N} \\
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AB
      Title pharmaceuticals, which are water soluble and show good absorption from
      the digestive tract after oral administration unlike interferon, contain adenines
      I [X = NH, C1-3 \text{ alkylimino}, O, S; R1 = (un) substituted alkyl, (un) substituted
      alkenyl, (un)substituted alkynyl, (un)substituted (hetero)aryl; R2 = OH, SH,
      C1-8 acyloxy, C2-8 alkoxycarbonyloxy; Y = (un)substituted naphthalene,
      (un) substituted aromatic heterocyclyl], their tautomers, or their pharmacol.
      acceptable salts as active ingredients. Thus,
      2-butoxy-9-(6-chloro-3-pyridylmethyl)-8-hydroxyadenine at \geq1 nM induced
      interferon formation in mouse fibroblast cell line L929 infected with vesicular
      stomatitis virus.
     adenine prepn antitumor antiinflammatory antiviral oral; interferon
     inducer adenine prepn; Th2 selective immunosuppressant adenine prepn
IT T cell (lymphocyte)
       (helper cell/inducer, TH2; oral antiviral, antitumor, and
       anti-inflammatory agents containing adenines as interferon inducers and Th2
       cell-selective immunosuppressants)
    Anti-inflammatory agents
       (nonsteroidal; oral antiviral, antitumor, and anti-inflammatory agents
       containing adenines as interferon inducers and Th2 cell-selective
       immunosuppressants)
    Allergy
    Allergy inhibitors
    Antitumor agents
    Antiviral agents
    Human
    Immunosuppressants
    Inflammation
    Neoplasm
       (oral antiviral, antitumor, and anti-inflammatory agents containing
       adenines as interferon inducers and Th2 cell-selective
       immunosuppressants)
    Interferons
    RL: BSU (Biological study, unclassified); BIOL (Biological study)
       (oral antiviral, antitumor, and anti-inflammatory agents containing
       adenines as interferon inducers and Th2 cell-selective
       immunosuppressants)
    Infection
       (viral; oral antiviral, antitumor, and anti-inflammatory agents containing
      adenines as interferon inducers and Th2 cell-selective
       immunosuppressants)
    473930-12-0P 473930-14-2P 473930-22-2P
    RL: BSU (Biological study, unclassified); PAC (Pharmacological activity);
    RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL
    (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES
       (oral antiviral, antitumor, and anti-inflammatory agents containing
      adenines as interferon inducers and Th2 cell-selective
      immunosuppressants)
    473929-96-3P 473929-97-4P 473930-00-6P 473930-03-9P 473930-06-2P
    473930-20-0P
    RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic
    preparation); THU (Therapeutic use); BIOL (Biological study); PREP
    (Preparation); RACT (Reactant or reagent); USES (Uses)
       (oral antiviral, antitumor, and anti-inflammatory agents containing
      adenines as interferon inducers and Th2 cell-selective
      immunosuppressants)
IT 473929-98-5P 473929-99-6P
                                473930-01-7P
                                               473930-02-8P 473930-04-0P
    473930-05-1P
                 473930-07-3P
                                 473930-08-4P
                                               473930-09-5P
                                                             473930-10-8P
    473930-11-9P 473930-13-1P
                                473930-15-3P
                                               473930-16-4P
                                                              473930-17-5P
    473930-18-6P 473930-19-7P 473930-21-1P
                                               473930-23-3P
                                                              473930-24-4P
    473930-25-5P 473930-26-6P 473930-27-7P 473930-28-8P
                                                              473930-29-9P
    473930-30-2P 473930-31-3P 473930-32-4P 473930-33-5P 473930-34-6P
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RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(oral antiviral, antitumor, and anti-inflammatory agents containing adenines as interferon inducers and Th2 cell-selective immunosuppressants)

TT 71-36-3, Butanol, reactions 79-03-8, Propionyl chloride 98-88-4, Benzoyl chloride 108-23-6, Isopropyl chloroformate 109-73-9, Butylamine, reactions 110-89-4, Piperidine, reactions 110-91-8, Morpholine, reactions 123-75-1, Pyrrolidine, reactions 541-41-3, Ethyl chloroformate 638-41-5, n-Pentyl chloroformate 874-60-2, p-Toluoyl chloride 1839-18-5, 2-Chloroadenine 2937-50-0, Allyl chloroformate 6959-48-4, 3-Chloromethylpyridine hydrochloride 13248-54-9, Cyclohexyl chloroformate 70258-18-3, 2-Chloro-5-chloromethylpyridine RL: RCT (Reactant); RACT (Reactant or reagent)

(oral antiviral, antitumor, and anti-inflammatory agents containing adenines as interferon inducers and Th2 cell-selective immunosuppressants)

IT 5463-09-2P 473930-51-7P 473930-52-8P 473930-53-9P 473930-54-0P 473930-55-1P 473930-56-2P 473930-57-3P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(oral antiviral, antitumor, and anti-inflammatory agents containing adenines as interferon inducers and Th2 cell-selective immunosuppressants)

OSC.G 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS) UPOS.G Date last citing reference entered STN: 16 Feb 2009 OS.G CAPLUS 2008:1157747; 2007:350217; 2007:350028